

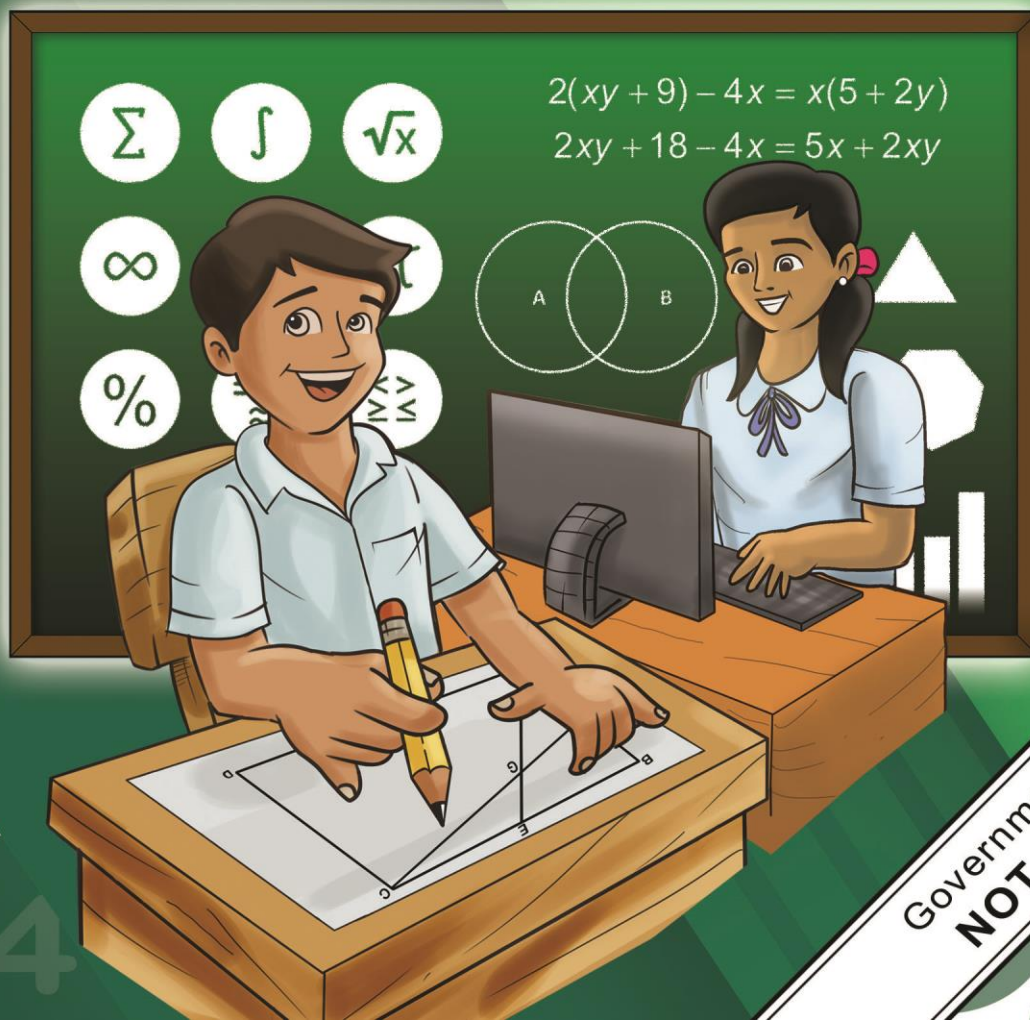
7&8

NATIONAL LEARNING CAMP

Mathematics

Intervention Learning Camp

Student Workbook



Government Property
NOT FOR SALE

Intervention Learning Camp

Intervention Mathematics Grade 7 and 8

Student Workbook

Weeks 1 to 3

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Introduction for Students – Intervention Mathematics

Welcome to the National Learning Camp. You are probably aware that this Camp is only open to students like you who have just completed Grade 7 or Grade 8 across the country.

You have chosen to be part of this important national program. This year the Intervention Camp will focus on two subjects, namely, Intervention Mathematics and Intervention English.

The Plan

You are to attend school on three days each week: Tuesday, Wednesday and Thursday. You will undertake six lessons each day. The purpose is to help you further strengthen your learning.

You will take part in six special lessons each day. The lessons are designed to help you revisit ideas in fundamental areas of English vocabulary and reading and important basic skills in Mathematics.

Some of the fundamental ideas in Mathematics may be familiar to you.

If this is the case, that is excellent. However, the questions are:

How fast do you know how to add and subtract?

Do you also understand the words and are you able to work effectively with numbers?

It turns out that such skills as fast recall of fundamental reading and mathematics skills are very important for the learning brain. These skills help you to proceed with your learning in all other subjects.

It is good to aim to be able to undertake 30 mental mathematical operations in close to one minute. This is an important challenge in this Intervention Camp.

Time in Class

How you use your time in lessons is very important. Every minute is valuable. It is critical that you work with the teacher and your classmates as closely as you can.

This means you will be expected to:

- start each lesson as quickly as possible,
- recognize the lesson pattern and help the teacher as you move from one part of the lesson to another,
- pay attention when the teacher or students in your class are talking about work, and
- try your best with all the different activities that make up the lesson.

You will have opportunities to write your answers down, explain to the teacher or classmates your reasons for your responses or thinking. There will be time to work on your own and at other times you will work with your classmates and report to the class.

Mistakes

One important fact drawn from brain research on learning concerns making mistakes. **It might surprise you!**

Making mistakes while learning and trying to improve your skills and understanding is *part of the brain's process*. So, learning from mistakes is an important pathway of our learning journey. When a genuine mistake is made:

- do not be ashamed or embarrassed,
- do try to learn from your mistake,
- be willing to talk about your mistakes,
- try to understand why you committed a mistake, and
- find out how to correct the mistake.

Too often learners are embarrassed or feel they have failed because of errors/mistakes. **This should not be the case.** Everyone makes mistakes as they learn new material – **everyone.**

A very famous scientist, Niels Bohr, who won a Nobel Prize for Physics, said:

An expert is a person who has made all the mistakes that can be made in a very narrow field.

Everyone makes mistakes, even experts. **It is a vital part of learning.** If you make mistakes, it is a sign that you are moving your learning forward. You may need to return to earlier learning and fill in some gaps.

Mistakes and/or errors tell **you** and your **teacher** about your thinking and where you need help or practice (we call it deliberate practice) to do better. The **teacher** and **you** should celebrate finding the mistake as it will help you both know what new learning is needed.

You might be surprised, but if you do not make genuine mistakes and fix them, your learning will not move forward efficiently.

Practice

If you want to be good at something, you must practice it. Practice alerts the brain that this information needs to be remembered and to store the information in your head.

This is the way the brain works; this is the way the brain learns. Learning, anything from sport, about your peers, and to learning subjects in school, requires effort and that means practice.

Effort requires persistence, but it is not supposed to be difficult and punishing. It may be continued until one learns. There are no tricks. This is what the brain needs to learn.

It is important that you try and try again

Learning is a competition with yourself, not others. It is recognizing how your effort results in showing you where and how you are doing better. To be as good as you can be, will only be known if you try.

The Extensive Team of Educators and Teachers involved in the National Learning Camp wish you the very best in your education future. For the Learning Camp, and your work when you return to school, our hope is for you to take any new knowledge, skills and understandings you have acquired to learn more, and to use this knowledge to want to learn more.

Best Wishes

Lesson 1

Addition and Subtraction Facts + 0 and – 0

Fill in the blanks below

$0 + 0 = 0$	$0 + 0 = 0$	$0 - 0 = 0$	$0 - 0 = 0$
$1 + 0 = 1$	$0 + 1 = 1$	$1 - 0 = 1$	$1 - 1 = 0$
$2 + 0 = 2$	$0 + 2 = 2$	$2 - 0 = 2$	$2 - 2 = 0$
$3 + 0 = 3$	$0 + 3 = 3$	$3 - 0 = 3$	$3 - 3 = 0$
$4 + 0 = 4$		$4 - 0 = 4$	$4 - 4 = 0$
$5 + 0 = 5$	$0 + 5 = 5$		$5 - 5 = 0$
$6 + 0 = 6$		$6 - 0 = 6$	$6 - 6 = 0$
	$0 + 7 = 7$	$7 - 0 = 7$	$7 - 7 = 0$
$8 + 0 = 8$	$0 + 8 = 8$	$8 - 0 = 8$	
$9 + 0 = 9$	$0 + 9 = 9$	$9 - 0 = 9$	$9 - 9 = 0$
$10 + 0 = 10$	$0 + 10 = 10$	$10 - 0 = 10$	$10 - 10 = 0$
$11 + 0 = 11$	$0 + 11 = 11$		$11 - 11 = 0$
	$0 + 12 = 12$	$12 - 0 = 12$	$12 - 12 = 0$

Addition and Subtraction Facts + 1 and – 1

Fill in the blanks below

$0 + 1 = 1$	$1 + 0 = 1$	$1 - 1 = 0$	$1 - 0 = 1$
$1 + 1 = 2$	$1 + 1 = 2$	$2 - 1 = 1$	$2 - 1 = 1$
$2 + 1 = 3$	$1 + 2 = 3$	$3 - 1 = 2$	$3 - 2 = 1$
$3 + 1 = 4$	$1 + 3 = 4$	$4 - 1 = 3$	
	$1 + 4 = 5$	$5 - 1 = 4$	$5 - 4 = 1$
$5 + 1 = 6$	$1 + 5 = 6$	$6 - 1 = 5$	$6 - 5 = 1$
$6 + 1 = 7$		$7 - 1 = 6$	$7 - 6 = 1$
$7 + 1 = 8$	$1 + 7 = 8$	$8 - 1 = 7$	$8 - 7 = 1$
$8 + 1 = 9$	$1 + 8 = 9$	$9 - 1 = 8$	$9 - 8 = 1$
$9 + 1 = 10$		$10 - 1 = 9$	$10 - 9 = 1$
	$1 + 10 = 11$	$11 - 1 = 10$	$11 - 10 = 1$
$11 + 1 = 12$	$1 + 11 = 12$	$12 - 1 = 11$	$12 - 11 = 1$
$12 + 1 = 13$	$1 + 12 = 13$		$13 - 12 = 1$

Lesson 1 Intention & Language

Lesson Intention

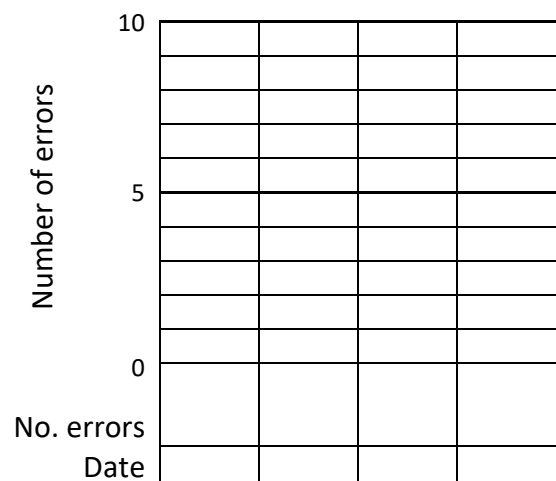
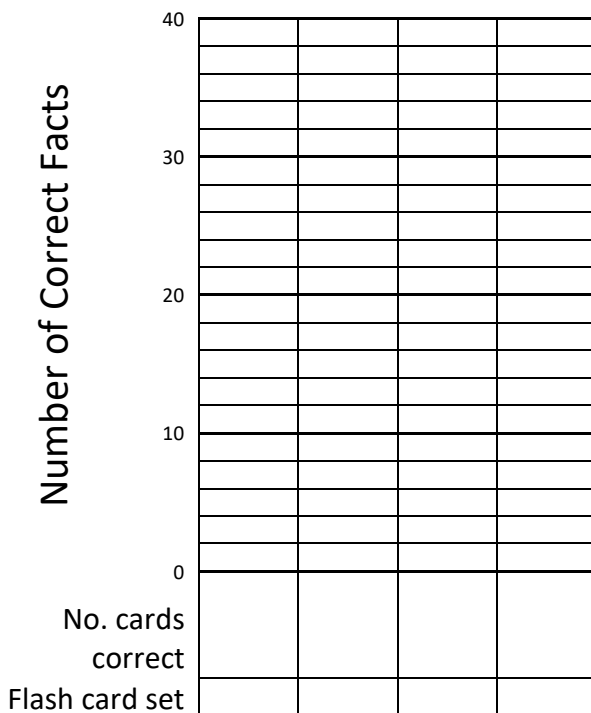
In these Intervention Mathematics lessons, we will be looking at the number facts up to 12. Today, our focus is on adding 0, 1, 2 and 4. In this lesson, our focus is adding 0 and 1. While you may know these number facts, can you give answers that are fast and correct?

Lesson Language

Add, none, zero.

Lesson 1 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 1 Speed Questions (+, - 0 & 1)

Answer as many as you can in 2 minutes.

$0 + 3 = \underline{\quad}$	$7 - 1 = \underline{\quad}$	$9 + 0 = \underline{\quad}$	$1 + 0 = \underline{\quad}$
$0 + 0 = \underline{\quad}$	$\underline{\quad} + 0 = 1$	$6 + \underline{\quad} = 7$	$0 + \underline{\quad} = 3$
$1 + 11 = \underline{\quad}$	$12 + 0 = \underline{\quad}$	$10 + 0 = \underline{\quad}$	$0 + \underline{\quad} = 4$
$3 + \underline{\quad} = 4$	$0 + 7 = \underline{\quad}$	$4 - 1 = \underline{\quad}$	$8 + 1 = \underline{\quad}$
$\underline{\quad} + 0 = 12$	$1 + 6 = \underline{\quad}$	$\underline{\quad} + 1 = 11$	$\underline{\quad} + 4 = 5$
$10 + \underline{\quad} = 10$	$1 + \underline{\quad} = 2$	$0 + \underline{\quad} = 8$	$11 - 0 = \underline{\quad}$
$6 - 0 = \underline{\quad}$	$12 + \underline{\quad} = 13$	$4 + 0 = \underline{\quad}$	$7 + 0 = \underline{\quad}$
$0 + 5 = \underline{\quad}$	$9 + 0 = \underline{\quad}$	$\underline{\quad} + 1 = 1$	$7 - 1 = \underline{\quad}$
$\underline{\quad} + 7 = 8$	$1 - 1 = \underline{\quad}$	$6 - 1 = \underline{\quad}$	$2 + 1 = \underline{\quad}$
$2 - 1 = \underline{\quad}$	$\underline{\quad} + 0 = 3$	$3 + 1 = \underline{\quad}$	$\underline{\quad} + 11 = 11$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 1 Work Sheet

1. What number adds to make 10? The first two are done for you.

a)

7, 3	4, 6	5, <u> </u>	1, <u> </u>
8, <u> </u>	10, <u> </u>	6, <u> </u>	0, <u> </u>
$9\frac{1}{2}$, <u> </u>	3, <u> </u>	9, <u> </u>	2, <u> </u>

b)

6, <u> </u>	3, <u> </u>	8, <u> </u>	$4\frac{1}{2}$, <u> </u>
5, <u> </u>	2, <u> </u>	9, <u> </u>	1, <u> </u>
7, <u> </u>	4, <u> </u>	0, <u> </u>	10, <u> </u>

Number of Correct Answers: _____

2. Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom.

	1	3
3		5
5	3	

2		5
	2	3
3	5	

1		3
	7	8
2	9	

Number of Correct Answers: _____

Lesson 1: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	0	1	2	1	0	4
1						
0						
10						
2						
8						
4						

Number of Correct Answers: _____

+	1	5	3	9	7	6
0						
1						
2						
0						
4						
2						

Number of Correct Answers: _____

Lesson 1 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

5 17 23 10 18 0 8 14 20 11 12 6 15 1 19

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 2

Addition and Subtraction Facts + 2 and - 2

Fill in the blanks below

$0 + 2 = 2$	$2 + 0 = 2$	$2 - 2 = 0$	$2 - 0 = 2$
$1 + 2 = 3$	$2 + 1 = 3$	$3 - 2 = 1$	$3 - 1 = 2$
$2 + 2 = 4$	$2 + 2 = 4$	$4 - 2 = 2$	$4 - 2 = 2$
$3 + 2 = 5$		$5 - 2 = 3$	$5 - 3 = 2$
$4 + 2 = 6$	$2 + 4 = 6$	$6 - 2 = 4$	$6 - 4 = 2$
	$2 + 5 = 7$		$7 - 5 = 2$
$6 + 2 = 8$	$2 + 6 = 8$	$8 - 2 = 6$	$8 - 6 = 2$
$7 + 2 = 9$		$9 - 2 = 7$	$9 - 7 = 2$
	$2 + 8 = 10$	$10 - 2 = 8$	$10 - 8 = 2$
$9 + 2 = 11$	$2 + 9 = 11$	$11 - 2 = 9$	
$10 + 2 = 12$		$12 - 2 = 10$	$12 - 10 = 2$
	$2 + 11 = 13$	$13 - 2 = 11$	$13 - 11 = 2$
$12 + 2 = 14$	$2 + 12 = 14$	$14 - 2 = 12$	$14 - 12 = 2$

Lesson 2 Intention & Language

Lesson Intention

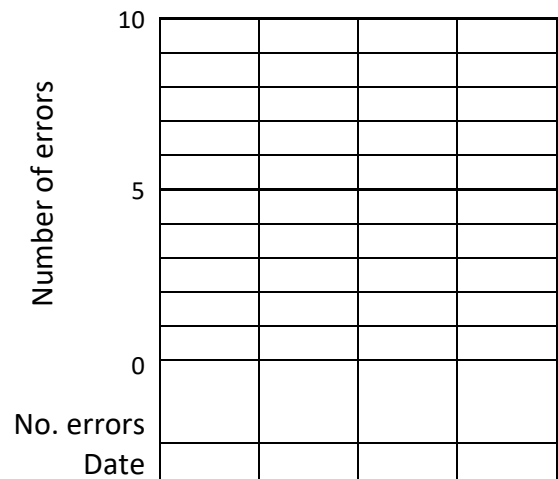
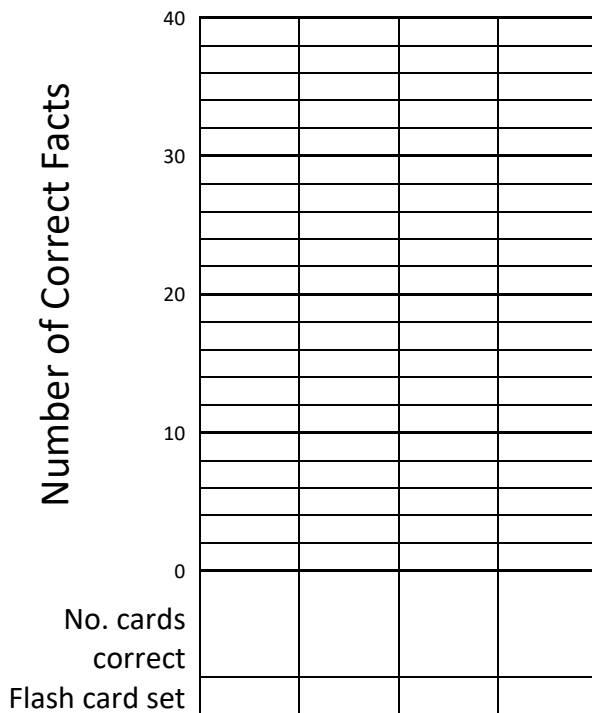
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 0, 1, 2 and 4. In our earlier lesson, we looked at adding 0 and 1. In this lesson, our focus is adding 2. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Plus, addition, sum.

Lesson 2 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 2 Speed Questions (+ & - 2)

Answer as many as you can in 2 minutes.

$2 + 4 = \underline{\quad}$	$\underline{\quad} + 2 = 2$	$2 + \underline{\quad} = 2$	$\underline{\quad} + 5 = 7$
$2 + 11 = \underline{\quad}$	$5 - 2 = \underline{\quad}$	$2 + \underline{\quad} = 3$	$2 + 8 = \underline{\quad}$
$\underline{\quad} + 1 = 3$	$2 + \underline{\quad} = 4$	$2 + 7 = \underline{\quad}$	$12 + 2 = \underline{\quad}$
$6 - 2 = \underline{\quad}$	$3 + \underline{\quad} = 5$	$\underline{\quad} + 2 = 13$	$2 + \underline{\quad} = 13$
$2 + \underline{\quad} = 9$	$2 + 12 = \underline{\quad}$	$8 - 2 = \underline{\quad}$	$9 + \underline{\quad} = 11$
$2 + 2 = \underline{\quad}$	$9 + 2 = \underline{\quad}$	$4 + 2 = \underline{\quad}$	$4 - 2 = \underline{\quad}$
$8 + 2 = \underline{\quad}$	$11 - 2 = \underline{\quad}$	$\underline{\quad} + 2 = 8$	$10 + 2 = \underline{\quad}$
$\underline{\quad} + 6 = 8$	$\underline{\quad} + 2 = 4$	$2 + 5 = \underline{\quad}$	$10 - 2 = \underline{\quad}$
$2 - 2 = \underline{\quad}$	$6 + 2 = \underline{\quad}$	$2 + 3 = \underline{\quad}$	$\underline{\quad} + 2 = 7$
$2 + \underline{\quad} = 7$	$12 + 2 = \underline{\quad}$	$12 - 2 = \underline{\quad}$	$2 + 3 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 2 Work Sheet

1. What number adds to make 10?

a)

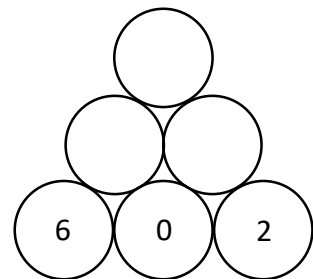
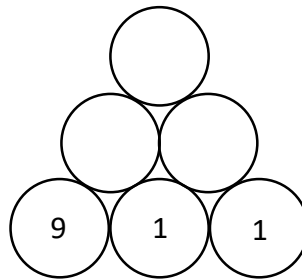
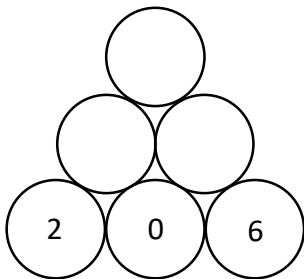
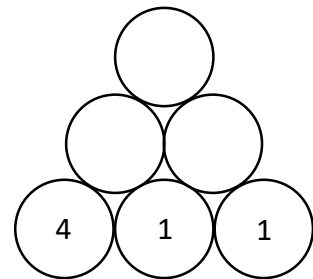
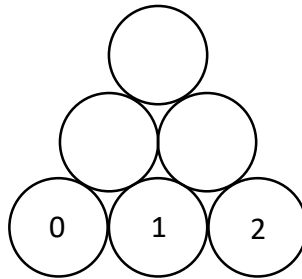
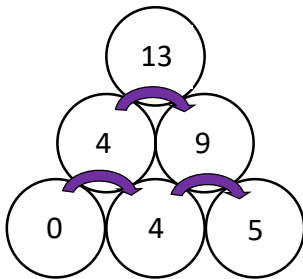
6, ___	1, ___	4, ___	$1\frac{2}{3}$, ___
5, ___	4, ___	$2\frac{1}{2}$, ___	9, ___
$5\frac{1}{3}$, ___	7, ___	6, ___	8, ___

b)

8, ___	3, ___	$9\frac{2}{3}$, ___	2, ___
10, ___	7, ___	4, ___	5, ___
6, ___	4, ___	$6\frac{1}{3}$, ___	2, ___

Number of Correct Answers: _____

2. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers. The first one is done for you.



Number of Correct Answers: _____

3. Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom.

3		4
		9
5	8	

7		9
		5
9	5	

2		7
		9
10	6	

Number of Correct Answers: _____

Lesson 2: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	0	1	2	1	2	4
2						
9						
8						
4						
7						
1						

Number of Correct Answers: _____

+	10	5	6	3	0	2
2						
1						
4						
0						
4						
2						

Number of Correct Answers: _____

Lesson 2 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

19 17 4 11 6 10 16 15 5 12 3 22 18 7 2

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 3

Addition and Subtraction Facts + 4 and - 4

Fill in the blanks below

$0 + 4 = 4$	$4 + 0 = 4$	$4 - 4 = 0$	$4 - 0 = 4$
$1 + 4 = 5$	$4 + 1 = 5$	$5 - 4 = 1$	$5 - 1 = 4$
$2 + 4 = 6$	$4 + 2 = 6$	$6 - 4 = 2$	$6 - 2 = 4$
$3 + 4 = 7$		$7 - 4 = 3$	$7 - 3 = 4$
	$4 + 4 = 8$	$8 - 4 = 4$	$8 - 4 = 4$
	$4 + 5 = 9$	$9 - 4 = 5$	$9 - 5 = 4$
$6 + 4 = 10$	$4 + 6 = 10$	$10 - 4 = 6$	$10 - 6 = 4$
$7 + 4 = 11$		$11 - 4 = 7$	$11 - 7 = 4$
$8 + 4 = 12$		$12 - 4 = 8$	$12 - 8 = 4$
$9 + 4 = 13$	$4 + 9 = 13$	$13 - 4 = 9$	
	$4 + 10 = 14$	$14 - 4 = 10$	$14 - 10 = 4$
$11 + 4 = 15$	$4 + 11 = 15$	$15 - 4 = 11$	$15 - 11 = 4$
$12 + 4 = 16$	$4 + 12 = 16$		$16 - 12 = 4$

Lesson 3 Intention & Language

Lesson Intention

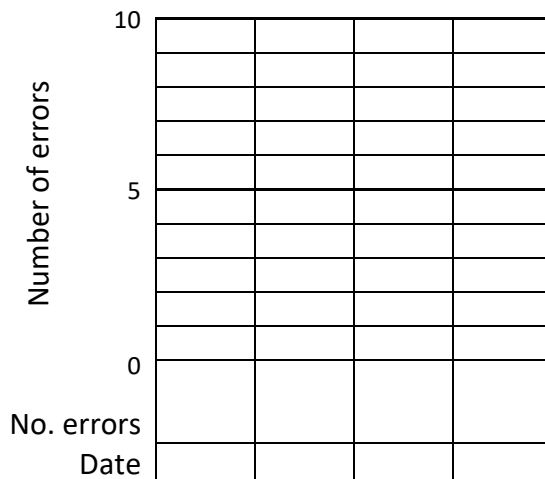
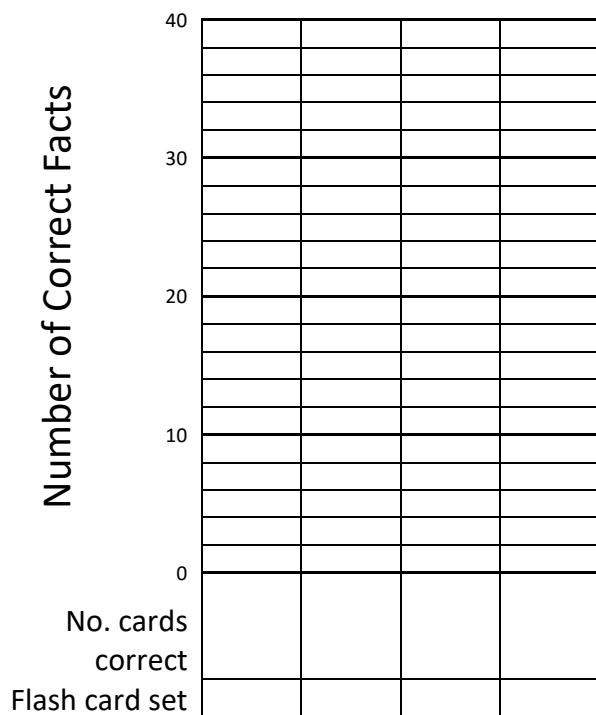
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 0, 1, 2 and 4. In our earlier lessons, we looked at adding 0, 1 and 2. In this lesson, our focus is adding 4. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Total, together, altogether.

Lesson 3 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 3 Speed Questions (+ & - 4)

Answer as many as you can in 2 minutes.

$9 + 4 = \underline{\quad}$	$1 + 4 = \underline{\quad}$	$0 + 4 = \underline{\quad}$	$4 + 9 = \underline{\quad}$
$4 + 4 = \underline{\quad}$	$9 - 4 = \underline{\quad}$	$\underline{\quad} + 2 = 6$	$11 + 4 = \underline{\quad}$
$\underline{\quad} + 11 = 15$	$4 + 3 = \underline{\quad}$	$4 + 3 = \underline{\quad}$	$4 + 5 = \underline{\quad}$
$\underline{\quad} + 10 = 14$	$\underline{\quad} + 7 = 11$	$\underline{\quad} + 4 = 10$	$8 - 4 = \underline{\quad}$
$2 + 4 = \underline{\quad}$	$4 + 9 = \underline{\quad}$	$4 + \underline{\quad} = 5$	$5 + \underline{\quad} = 9$
$6 - 4 = \underline{\quad}$	$\underline{\quad} + 4 = 5$	$4 + 7 = \underline{\quad}$	$2 + 4 = \underline{\quad}$
$4 - 0 = \underline{\quad}$	$4 + \underline{\quad} = 9$	$4 + \underline{\quad} = 6$	$\underline{\quad} + 4 = 12$
$4 + \underline{\quad} = 5$	$11 - 7 = \underline{\quad}$	$4 - 2 = \underline{\quad}$	$9 - 4 = \underline{\quad}$
$10 + 4 = \underline{\quad}$	$2 + \underline{\quad} = 6$	$4 - 1 = \underline{\quad}$	$10 + \underline{\quad} = 14$
$4 + \underline{\quad} = 14$	$11 + 4 = \underline{\quad}$	$4 + 4 = \underline{\quad}$	$\underline{\quad} + 5 = 9$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 3 Work Sheet

1. What number adds to make 100?

a)

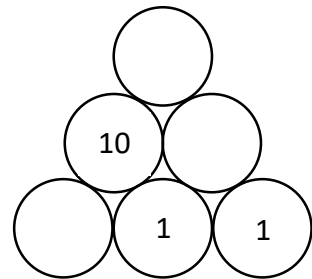
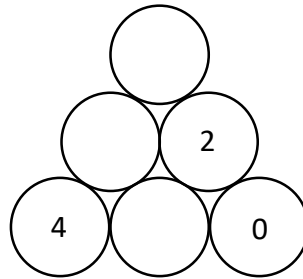
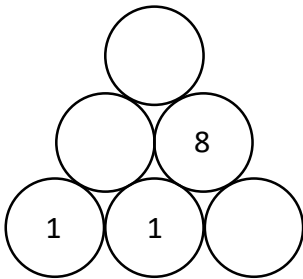
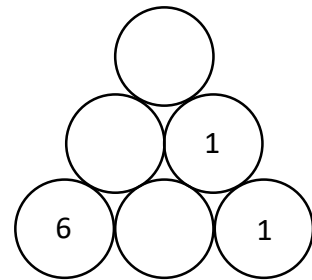
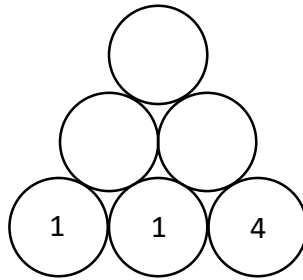
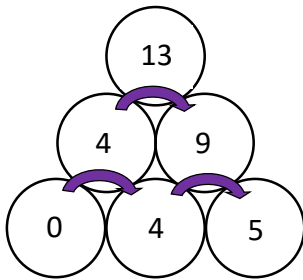
20,___	43,___	67,___	15,___
90,___	10,___	1,___	33,___
88,___	25,___	73,___	93,___

b)

43,___	31,___	82,___	41,___
59,___	26,___	19,___	11,___
4,___	77,___	62,___	49,___

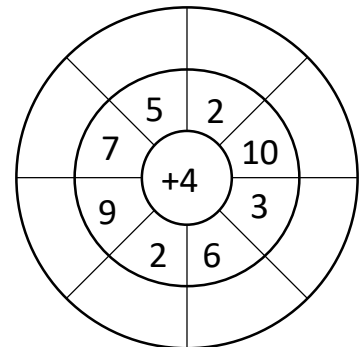
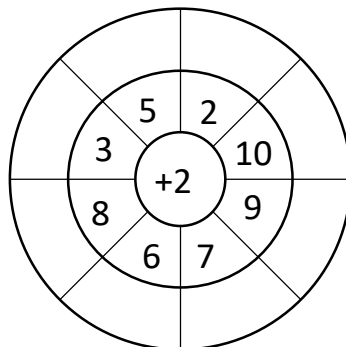
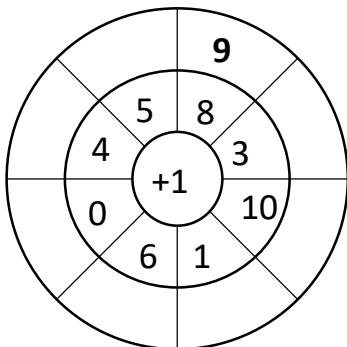
Number of Correct Answers: _____

2. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers. The first one is done for you.



Number of Correct Answers: _____

3. Add the center number and the middle number and write your answer in the space. The first one is done for you.



Number of Correct Answers: _____

Lesson 3: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.
How many can you correctly complete in 4 minutes?

+	2	4	0	1	4	2
4						
0						
3						
10						
8						
5						

Number of Correct Answers: _____

+	7	1	2	9	6	4
2						
1						
4						
0						
4						
2						

Number of Correct Answers: _____

Lesson 3 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of adding 0, 1, 2 and 4 after today's lessons? Circle one below:



I am not sure/confused
about this topic



I have some idea but
questions about this
topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 4

Addition and Subtraction Facts + 3 and - 3

Fill in the blanks below

$0 + 3 = 3$	$3 + 0 = 3$	$3 - 3 = 0$	$3 - 0 = 3$
$1 + 3 = 4$	$3 + 1 = 4$	$4 - 3 = 1$	$4 - 1 = 3$
$2 + 3 = 5$	$3 + 2 = 5$	$5 - 3 = 2$	$5 - 2 = 3$
	$3 + 3 = 6$	$6 - 3 = 3$	$6 - 3 = 3$
$4 + 3 = 7$		$7 - 3 = 4$	$7 - 4 = 3$
$5 + 3 = 8$	$3 + 5 = 8$		$8 - 5 = 3$
$6 + 3 = 9$	$3 + 6 = 9$	$9 - 3 = 6$	
$7 + 3 = 10$		$10 - 3 = 7$	$10 - 7 = 3$
	$3 + 8 = 11$	$11 - 3 = 8$	$11 - 8 = 3$
$9 + 3 = 12$		$12 - 3 = 9$	$12 - 9 = 3$
$10 + 3 = 13$	$3 + 10 = 13$	$13 - 3 = 10$	$13 - 10 = 3$
$11 + 3 = 14$	$3 + 11 = 14$	$14 - 3 = 11$	$14 - 11 = 3$
	$3 + 12 = 15$	$15 - 3 = 12$	$15 - 12 = 3$

Lesson 4 Intention & Language

Lesson Intention

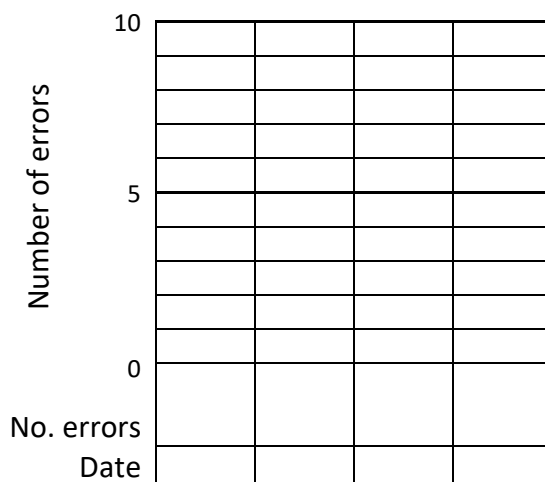
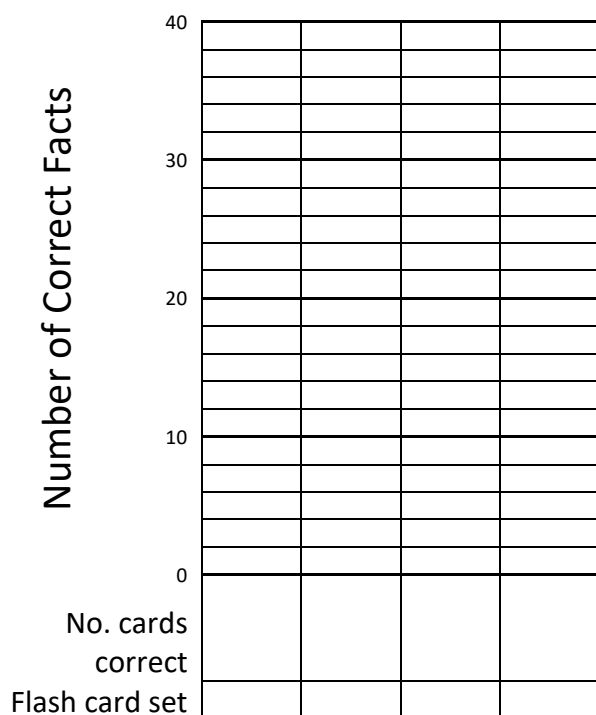
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 3, 9, and 11. In this lesson, our focus is adding 3. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

More, increase, increased by.

Lesson 4 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 4 Speed Questions (+ & - 3)

Answer as many as you can in 2 minutes.

$3 + 9 = \underline{\quad}$	$8 + 3 = \underline{\quad}$	$\underline{\quad} + 4 = 7$	$3 + 2 = \underline{\quad}$
$3 + 0 = \underline{\quad}$	$3 + \underline{\quad} = 9$	$3 + \underline{\quad} = 14$	$3 + \underline{\quad} = 6$
$5 + 3 = \underline{\quad}$	$3 + \underline{\quad} = 11$	$3 + \underline{\quad} = 13$	$4 - 3 = \underline{\quad}$
$\underline{\quad} + 5 = 8$	$1 + 3 = \underline{\quad}$	$3 - 1 = \underline{\quad}$	$3 + 3 = \underline{\quad}$
$\underline{\quad} + 3 = 11$	$8 - 3 = \underline{\quad}$	$7 + 3 = \underline{\quad}$	$3 + 5 = \underline{\quad}$
$5 - 3 = \underline{\quad}$	$6 + 3 = \underline{\quad}$	$9 + 3 = \underline{\quad}$	$4 + \underline{\quad} = 7$
$9 + 3 = \underline{\quad}$	$\underline{\quad} + 7 = 10$	$11 - 3 = \underline{\quad}$	$\underline{\quad} + 11 = 14$
$6 - 3 = \underline{\quad}$	$\underline{\quad} + 8 = 11$	$\underline{\quad} + 3 = 15$	$3 + 9 = \underline{\quad}$
$3 + \underline{\quad} = 6$	$3 - 1 = \underline{\quad}$	$10 + 3 = \underline{\quad}$	$11 - 3 = \underline{\quad}$
$3 + \underline{\quad} = 11$	$3 + 10 = \underline{\quad}$	$1 + 3 = \underline{\quad}$	$\underline{\quad} + 7 = 10$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 4 Work Sheet

1. What number adds to make 100?

a)

10,___	92,___	33,___	3,___
21,___	88,___	12,___	73,___
53,___	20,___	15,___	67,___

b)

23,___	81,___	42,___	49,___
51,___	28,___	99,___	91,___
24,___	75,___	69,___	31,___

Number of Correct Answers: _____

2. Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom.

3		5
		10
7	8	

	4	11
		5
8	8	

2		11
		6
5	12	

Number of Correct Answers: _____

3. Apply the rule to the input number to get the output number.

Input	Rule	Output
10	+3	
5	+3	
	+3	10
2	+3	
	+3	9

Input	Rule	Output
2	+4	
	+4	9
9	+4	
	+4	10
	+4	14

Number of Correct Answers: _____

Lesson 4: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.
How many can you correctly complete in 4 minutes?

+	3	1	4	0	3	2	4
4							
2							
10							
5							
1							
3							
4							

Number of Correct Answers: _____

+	6	0	7	9	4	8	4
4							
0							
4							
2							
3							
1							
3							

Number of Correct Answers: _____

Lesson 4 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

3 10 15 12 14 6 13 9 4 8 16 23 7 11 5

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 5

Addition and Subtraction Facts + 10 and – 10

Fill in the blanks below

$0 + 10 = 10$	$10 + 0 = 10$	$10 - 10 = 0$	$10 - 0 = 10$
$1 + 10 = 11$	$10 + 1 = 11$	$11 - 10 = 1$	$11 - 1 = 10$
$2 + 10 = 12$	$10 + 2 = 12$	$12 - 10 = 2$	$12 - 2 = 10$
$3 + 10 = 13$		$13 - 10 = 3$	$13 - 3 = 10$
	$10 + 4 = 14$	$14 - 10 = 4$	$14 - 4 = 10$
$5 + 10 = 15$	$10 + 5 = 15$	$15 - 10 = 5$	$15 - 5 = 10$
	$10 + 6 = 16$	$16 - 10 = 6$	$16 - 6 = 10$
$7 + 10 = 17$	$10 + 7 = 17$		$17 - 7 = 10$
$8 + 10 = 18$	$10 + 8 = 18$	$18 - 10 = 8$	$18 - 8 = 10$
$9 + 10 = 19$		$19 - 10 = 9$	$19 - 9 = 10$
	$10 + 10 = 20$	$20 - 10 = 10$	$20 - 10 = 10$
$11 + 10 = 21$	$10 + 11 = 21$	$21 - 10 = 11$	
$12 + 10 = 22$		$22 - 10 = 12$	$22 - 12 = 10$

Lesson 5 Intention & Language

Lesson Intention

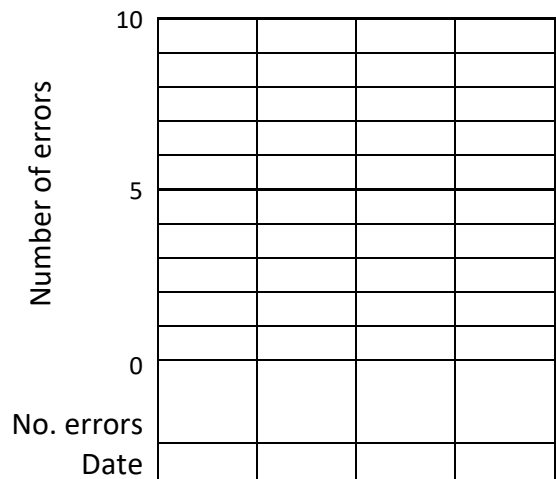
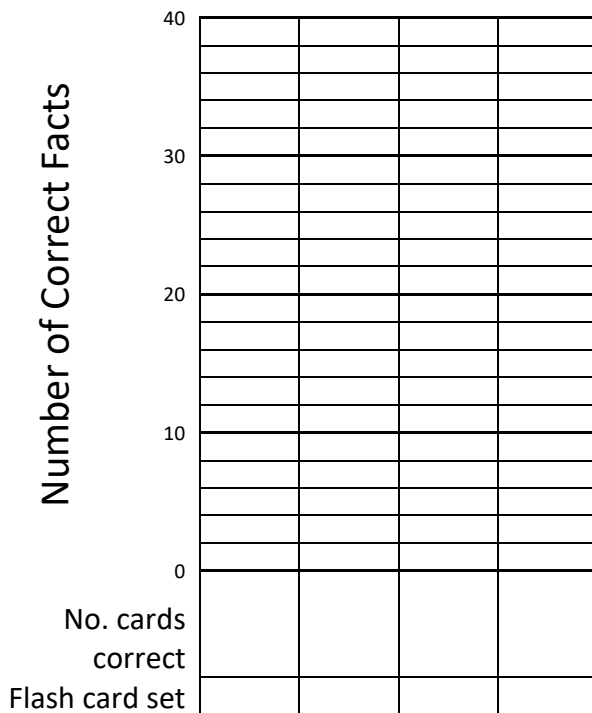
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 3, 10 and 11. In our earlier lesson, we looked at adding 3. In this lesson, our focus is adding 10. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

All, in all, result.

Lesson 5 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 5 Speed Questions (+ & - 10)

Answer as many as you can in 2 minutes.

$2 + 10 = \underline{\quad}$	$8 + 10 = \underline{\quad}$	$4 + 10 = \underline{\quad}$	$1 + 10 = \underline{\quad}$
$10 + 12 = \underline{\quad}$	$4 + \underline{\quad} = 14$	$10 + 3 = \underline{\quad}$	$\underline{\quad} + 10 = 0$
$10 + 4 = \underline{\quad}$	$10 + \underline{\quad} = 15$	$\underline{\quad} + 10 = 12$	$7 + 10 = \underline{\quad}$
$10 - 8 = \underline{\quad}$	$10 + 3 = \underline{\quad}$	$\underline{\quad} + 2 = 12$	$11 + \underline{\quad} = 21$
$6 + \underline{\quad} = 16$	$10 + 6 = \underline{\quad}$	$10 - 8 = \underline{\quad}$	$10 - 3 = \underline{\quad}$
$10 + \underline{\quad} = 16$	$\underline{\quad} + 11 = 21$	$5 + 10 = \underline{\quad}$	$10 + \underline{\quad} = 19$
$\underline{\quad} + 9 = 19$	$10 - 10 = \underline{\quad}$	$10 + \underline{\quad} = 21$	$11 + 10 = \underline{\quad}$
$10 - 9 = \underline{\quad}$	$10 - 8 = \underline{\quad}$	$10 + 10 = \underline{\quad}$	$\underline{\quad} + 10 = 14$
$\underline{\quad} + 10 = 11$	$10 + 0 = \underline{\quad}$	$1 + \underline{\quad} = 11$	$10 - 5 = \underline{\quad}$
$2 + 10 = \underline{\quad}$	$\underline{\quad} + 10 = 17$	$11 - 10 = \underline{\quad}$	$4 + 10 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 5 Work Sheet

1. What number adds to make 100?

a)

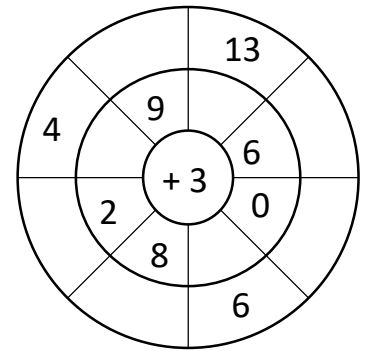
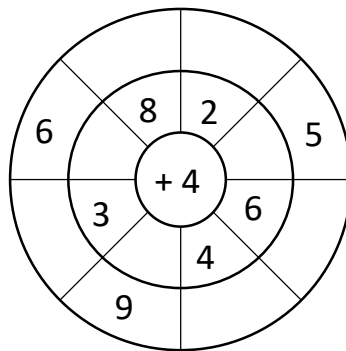
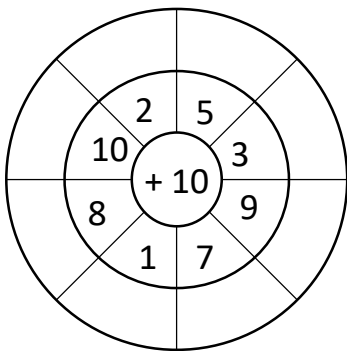
55,___	78,___	24,___	85,___
48,___	17,___	57,___	66,___
94,___	49,___	52,___	89,___

b)

33,___	18,___	24,___	96,___
15,___	82,___	9,___	19,___
42,___	67,___	96,___	14,___

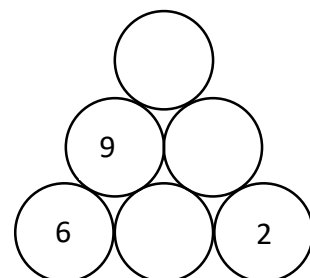
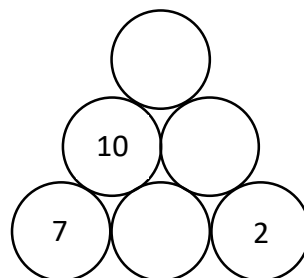
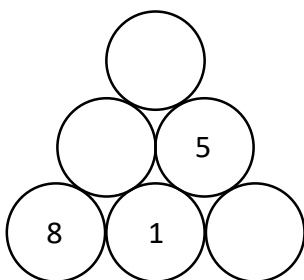
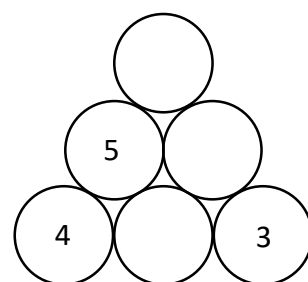
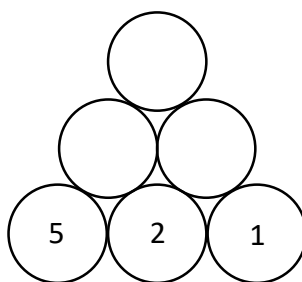
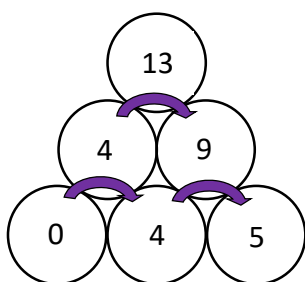
Number of Correct Answers: _____

2. Add the number to the middle number and write your answer in the space.



Number of Correct Answers: _____

3. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers. The first one is done for you.



Number of Correct Answers: _____

Lesson 5: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.
How many can you correctly complete in 4 minutes?

+	10	3	2	0	1	3	4
10							
5							
2							
1							
3							
0							
4							

Number of Correct Answers: _____

+	1	6	10	8	3	7	9
3							
10							
2							
1							
3							
4							
10							

Number of Correct Answers: _____

Lesson 5 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

12 20 13 10 18 11 22 19 17 30 16 14 25 21 15

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 6

Addition and Subtraction Facts + 11 and – 11

Fill in the blanks below

$0 + 11 = 11$	$11 + 0 = 11$	$11 - 11 = 0$	$11 - 0 = 11$
$1 + 11 = 12$	$11 + 1 = 12$	$12 - 11 = 1$	$12 - 1 = 11$
$2 + 11 = 13$	$11 + 2 = 13$	$13 - 11 = 2$	$13 - 2 = 11$
$3 + 11 = 14$	$11 + 3 = 14$		$14 - 3 = 11$
$4 + 11 = 15$	$11 + 4 = 15$	$15 - 11 = 4$	$15 - 4 = 11$
	$11 + 5 = 16$	$16 - 11 = 5$	$16 - 5 = 11$
$6 + 11 = 17$	$11 + 6 = 17$	$17 - 11 = 5$	$17 - 6 = 11$
$7 + 11 = 18$		$18 - 11 = 7$	$18 - 7 = 11$
	$11 + 8 = 19$	$19 - 11 = 8$	$19 - 8 = 11$
$9 + 11 = 20$	$11 + 9 = 20$	$20 - 11 = 9$	
$10 + 11 = 21$		$21 - 11 = 10$	$21 - 10 = 11$
	$11 + 11 = 22$	$22 - 11 = 11$	$22 - 11 = 11$
$12 + 11 = 23$		$23 - 11 = 12$	$23 - 12 = 11$

Lesson 6 Intention & Language

Lesson Intention

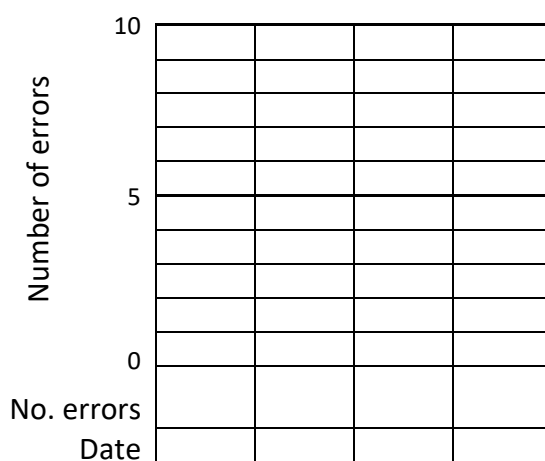
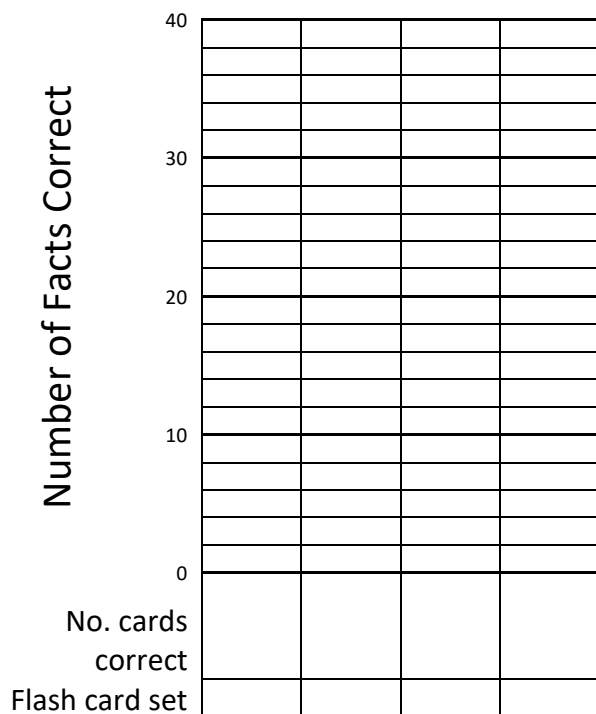
In these Intervention Mathematics lessons we are looking at the number facts up to 12. Today our focus is on adding 3, 10, and 11. In our earlier lessons we looked at adding 3 and 10. In this lesson our focus is adding 11. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Add in, add on, include.

Lesson 6 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 6 Speed Questions (+ & - 11)

Answer as many as you can in 2 minutes.

$2 + 11 = \underline{\quad}$	$8 + 11 = \underline{\quad}$	$12 + 11 = \underline{\quad}$	$5 + 11 = \underline{\quad}$
$11 + 12 = \underline{\quad}$	$11 - 10 = \underline{\quad}$	$\underline{\quad} + 6 = 17$	$\underline{\quad} + 10 = 21$
$11 + \underline{\quad} = 11$	$0 + 11 = \underline{\quad}$	$7 + 11 = \underline{\quad}$	$11 - 4 = \underline{\quad}$
$11 + 9 = \underline{\quad}$	$5 + \underline{\quad} = 16$	$9 + 11 = \underline{\quad}$	$11 + 1 = \underline{\quad}$
$11 - 4 = \underline{\quad}$	$\underline{\quad} + 11 = 22$	$8 + \underline{\quad} = 19$	$11 + \underline{\quad} = 13$
$6 + \underline{\quad} = 17$	$3 + 11 = \underline{\quad}$	$11 - 3 = \underline{\quad}$	$\underline{\quad} + 1 = 12$
$11 + 10 = \underline{\quad}$	$11 + 6 = \underline{\quad}$	$11 + \underline{\quad} = 22$	$7 + \underline{\quad} = 18$
$\underline{\quad} + 11 = 18$	$11 - 11 = \underline{\quad}$	$1 + 11 = \underline{\quad}$	$11 + 0 = \underline{\quad}$
$\underline{\quad} + 11 = 12$	$\underline{\quad} + 1 = 12$	$\underline{\quad} + 8 = 19$	$11 - 8 = \underline{\quad}$
$11 - 6 = \underline{\quad}$	$11 + \underline{\quad} = 21$	$11 - 5 = \underline{\quad}$	$4 + 11 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 6 Work Sheet

1. Round to the nearest ten.

a) 17 _____

d) 46 _____

b) 3 _____

e) 159 _____

c) 71 _____

f) 35 _____

Number of Correct Answers: _____

2. Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom.

11		13
		9
15	7	

	11	13
		10
12	11	

		7
11		17
14	10	

Number of Correct Answers: _____

3. Use the digits 0 to 9 to fill the cells in the grid. The columns must add up to the given sums at the bottom. You must use all the digits 0 to 9 in each row, but digits may be repeated in columns. The digits in connecting unshaded cells (also diagonally) must be different.

a)

	8	4		9		7	1		3
				4	2		8	0	
13	11	5	6	13	7	16	9	2	8

b)

	1		2	5					6
7	3		8		2		5		4
16	4	13	10	5	5	1	9	17	10

Number of Correct Answers: _____

Lesson 6: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	10	3	2	0	1	11	4
3							
0							
4							
1							
10							
5							
2							

Number of Correct Answers: _____

+	1	6	10	8	3	7	9
11							
4							
10							
3							
1							
0							
2							

Number of Correct Answers: _____

Lesson 6 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of adding 3, 10 and 11 after today's lessons? Circle one below:



I am not sure/confused
about this topic



I have some questions
about this topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 7

Addition and Subtraction Facts + 9 and – 9

Fill in the blanks below

$0 + 9 = 9$	$9 + 0 = 9$	$9 - 9 = 0$	$9 - 0 = 9$
$1 + 9 = 10$	$9 + 1 = 10$	$10 - 9 = 1$	$10 - 1 = 9$
$2 + 9 = 11$	$9 + 2 = 11$	$11 - 9 = 2$	$11 - 2 = 9$
$3 + 9 = 12$	$9 + 3 = 12$	$12 - 9 = 3$	
$4 + 9 = 13$	$9 + 4 = 13$		$13 - 4 = 9$
	$9 + 5 = 14$	$14 - 9 = 5$	$14 - 5 = 9$
$6 + 9 = 15$		$15 - 9 = 6$	$15 - 6 = 9$
$7 + 9 = 16$	$9 + 7 = 16$	$16 - 9 = 7$	$16 - 7 = 9$
$8 + 9 = 17$		$17 - 9 = 8$	$17 - 8 = 9$
$9 + 9 = 18$		$18 - 9 = 9$	$18 - 9 = 9$
	$9 + 10 = 19$	$19 - 9 = 10$	$19 - 10 = 9$
$11 + 9 = 20$	$9 + 11 = 20$	$20 - 9 = 11$	$20 - 11 = 9$
	$9 + 12 = 21$	$21 - 9 = 12$	$21 - 12 = 9$

Lesson 7 Intention & Language

Lesson Intention

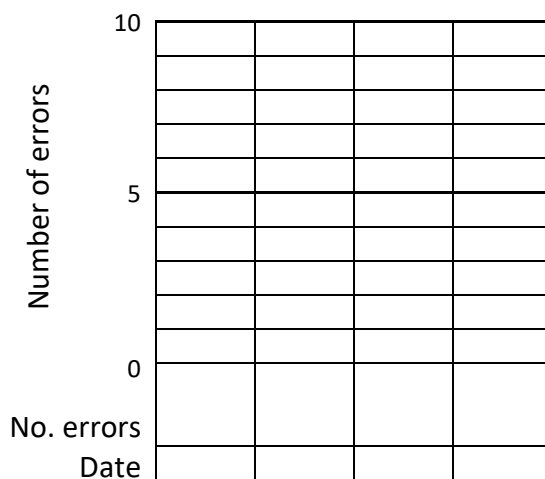
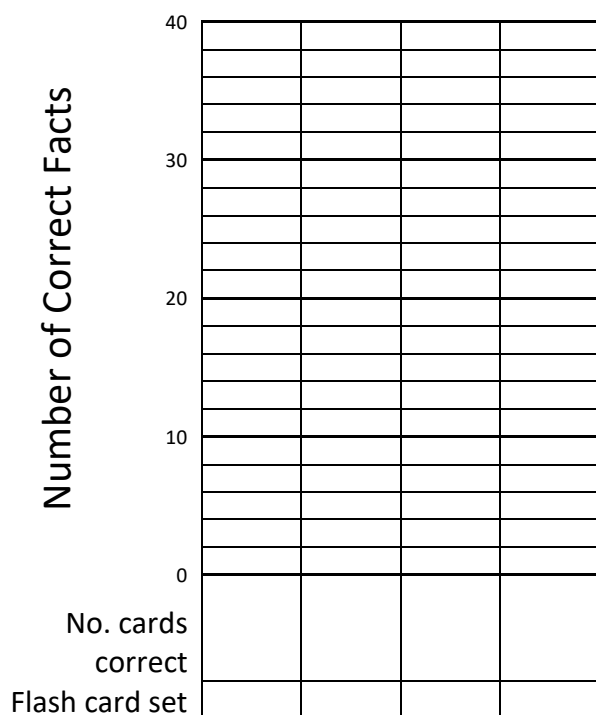
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 5, 6 and 9. In this lesson, our focus is adding 9. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Tally, net, count.

Lesson 7 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 7 Speed Questions (+ & - 9)

Answer as many as you can in 2 minutes.

$9 + \underline{\quad} = 15$	$9 + \underline{\quad} = 20$	$3 + 9 = \underline{\quad}$	$1 + 9 = \underline{\quad}$
$9 + 12 = \underline{\quad}$	$8 + \underline{\quad} = 17$	$10 - 9 = \underline{\quad}$	$9 - 0 = \underline{\quad}$
$4 + 9 = \underline{\quad}$	$\underline{\quad} + 9 = 18$	$9 + \underline{\quad} = 21$	$\underline{\quad} + 1 = 10$
$\underline{\quad} + 0 = 9$	$9 + 11 = \underline{\quad}$	$9 + 8 = \underline{\quad}$	$7 + 9 = \underline{\quad}$
$\underline{\quad} + 5 = 14$	$9 + 9 = \underline{\quad}$	$\underline{\quad} + 3 = 12$	$9 + \underline{\quad} = 10$
$1 + \underline{\quad} = 10$	$11 + 9 = \underline{\quad}$	$\underline{\quad} + 11 = 20$	$9 + 9 = \underline{\quad}$
$9 - 2 = \underline{\quad}$	$\underline{\quad} + 9 = 13$	$9 + \underline{\quad} = 18$	$\underline{\quad} + 9 = 17$
$8 + 9 = \underline{\quad}$	$9 - 7 = \underline{\quad}$	$9 - 9 = \underline{\quad}$	$11 + \underline{\quad} = 20$
$9 - 6 = \underline{\quad}$	$10 + 9 = \underline{\quad}$	$2 + 9 = \underline{\quad}$	$1 + 9 = \underline{\quad}$
$5 + 9 = \underline{\quad}$	$9 - 5 = \underline{\quad}$	$6 + 9 = \underline{\quad}$	$11 - 2 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 7 Work Sheet

1.

a) Start at 7 and add 3 five times

7 25

b) Start at 9 and add 4 five times

9 33

c) Start at 8 and add 5 five times

8 38

d) Start at 6 and add 2 five times

6 18

Number of Correct Answers:

2. Choose numbers from the box to complete the addition number sentences.

2 5 7 10 11 15

$$\boxed{9} + \boxed{2} = \boxed{}$$

$$\boxed{6} + \boxed{9} = \boxed{}$$

$$\boxed{} + \boxed{9} = \boxed{14}$$

$$\boxed{9} + \boxed{} = \boxed{16}$$

$$\boxed{} + \boxed{9} = \boxed{11}$$

$$\boxed{9} + \boxed{} = \boxed{19}$$

Number of Correct Answers:

3. Use numbers 1 to 10 to fill the empty cells so that the sum of each horizontal block of cells equals the clue number on its left, and the sum of each vertical block is the number on top. Each number can only be used once per block. The first one has been done for you.

	12	5
7	3	4
10	9	1

	14	11
6		
19		9

	13	13
19		9
7		

Number of Correct Answers:

Lesson 7: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.
How many can you correctly complete in 4 minutes?

+	9	3	10	4	1	2	0
3							
8							
0							
2							
9							
6							
5							

Number of Correct Answers: _____

+	10	7	9	4	1	9	11
2							
9							
3							
10							
4							
1							
0							

Number of Correct Answers: _____

Lesson 7 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

29 15 13 24 20 14 11 19 12 9 17 10 21 18 16

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 8

Addition and Subtraction Facts + 5 and – 5 Fill in the blanks below

$0 + 5 = 5$	$5 + 0 = 5$	$5 - 5 = 0$	$5 - 0 = 5$
$1 + 5 = 6$	$5 + 1 = 6$	$6 - 5 = 1$	$6 - 1 = 5$
$2 + 5 = 7$	$5 + 2 = 7$	$7 - 5 = 2$	$7 - 2 = 5$
$3 + 5 = 8$		$8 - 5 = 3$	$8 - 3 = 5$
	$5 + 4 = 9$	$9 - 5 = 4$	$9 - 5 = 5$
$5 + 5 = 10$		$10 - 5 = 5$	$10 - 5 = 5$
	$5 + 6 = 11$	$11 - 5 = 6$	$11 - 6 = 5$
$7 + 5 = 12$	$5 + 7 = 12$	$12 - 5 = 7$	$12 - 7 = 5$
$8 + 5 = 13$	$5 + 8 = 13$	$13 - 5 = 8$	
$9 + 5 = 14$	$5 + 9 = 14$		$14 - 9 = 5$
	$5 + 10 = 15$	$15 - 5 = 10$	$15 - 10 = 5$
$11 + 5 = 16$	$5 + 11 = 16$	$16 - 5 = 11$	$16 - 11 = 5$
$12 + 5 = 17$		$17 - 5 = 12$	$17 - 12 = 5$

Lesson 8 Intention & Language

Lesson Intention

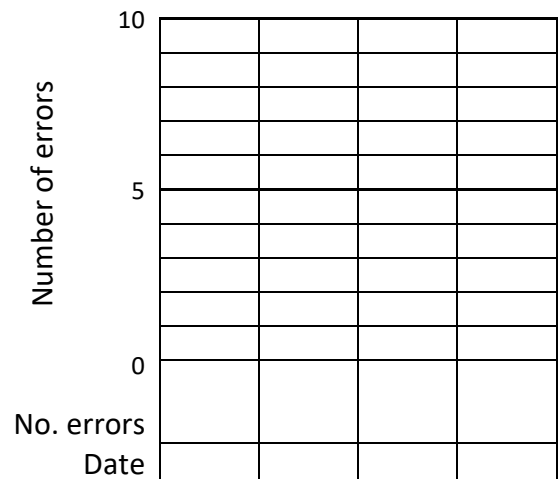
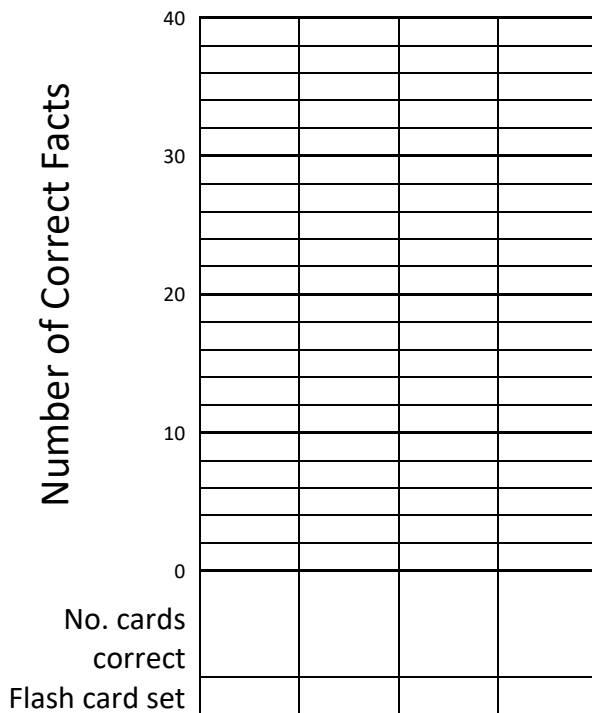
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 5, 6 and 9. In our earlier lesson we looked at adding 9. In this lesson, our focus is adding 5. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Another, extra, additional.

Lesson 8 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 8 Speed Questions (+ & - 5)

Answer as many as you can in 2 minutes.

$9 + \underline{\quad} = 14$	$6 + 5 = \underline{\quad}$	$5 + 5 = \underline{\quad}$	$5 + \underline{\quad} = 5$
$\underline{\quad} + 5 = 10$	$5 - 5 = \underline{\quad}$	$7 + 5 = \underline{\quad}$	$5 + 4 = \underline{\quad}$
$5 + 2 = \underline{\quad}$	$\underline{\quad} + 5 = 8$	$11 + 5 = \underline{\quad}$	$\underline{\quad} + 5 = 13$
$5 + \underline{\quad} = 12$	$\underline{\quad} + 5 = 15$	$5 - 5 = \underline{\quad}$	$5 + 0 = \underline{\quad}$
$5 - 3 = \underline{\quad}$	$5 + \underline{\quad} = 16$	$5 - 2 = \underline{\quad}$	$5 + \underline{\quad} = 15$
$5 + 3 = \underline{\quad}$	$7 - 5 = \underline{\quad}$	$5 + \underline{\quad} = 5$	$5 - 5 = \underline{\quad}$
$\underline{\quad} + 5 = 11$	$9 + \underline{\quad} = 14$	$5 + \underline{\quad} = 10$	$5 - 1 = \underline{\quad}$
$5 - 5 = \underline{\quad}$	$5 + 5 = \underline{\quad}$	$4 + 5 = \underline{\quad}$	$2 + 5 = \underline{\quad}$
$5 + 7 = \underline{\quad}$	$9 + 5 = \underline{\quad}$	$\underline{\quad} + 5 = 6$	$12 + 5 = \underline{\quad}$
$11 + 5 = \underline{\quad}$	$5 + 2 = \underline{\quad}$	$\underline{\quad} + 5 = 10$	$\underline{\quad} + 3 = 8$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 8 Work Sheet

1.

a) Start at 2 and add 4 five times

2 26

b) Start at 11 and add 5 five times

11 41

c) Start at 8 and add 9 five times

8 62

d) Start at 9 and add 3 five times

9 27

Number of Correct Answers:

2. Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom.

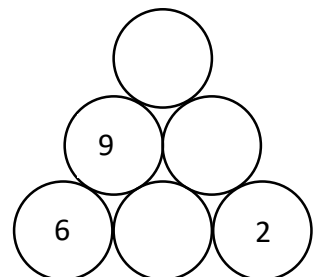
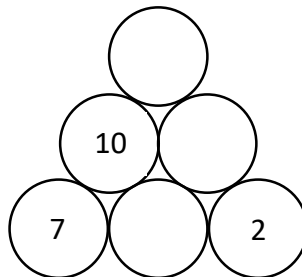
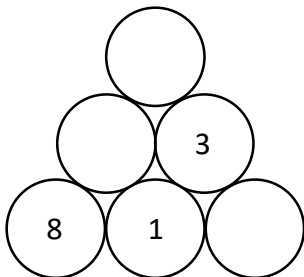
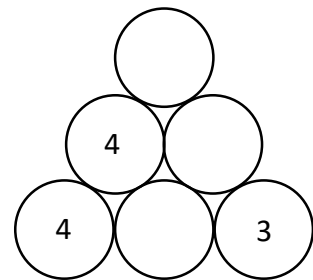
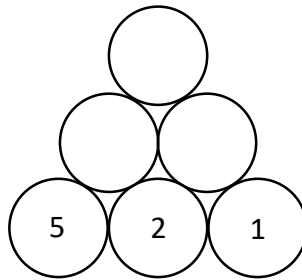
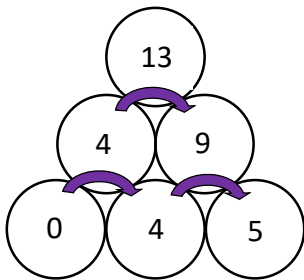
3		5
		10
7	8	

	4	11
		5
8	8	

2		11
		6
5	12	

Number of Correct Answers:

3. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers. The first one is done for you.



Number of Correct Answers:

Lesson 8: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	5	10	4	9	1	3	0	2
5								
1								
7								
9								
6								
2								
0								
10								

Number of Correct Answers: _____

+	10	8	9	4	5	3	4	11
5								
1								
9								
4								
10								
2								
3								
0								

Number of Correct Answers: _____

Lesson 8 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

17 20 11 25 13 7 14 10 19 8 12 15 6 9 5

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 9

Addition and Subtraction Facts + 6 and – 6

Fill in the blanks below

$0 + 6 = 6$	$6 + 0 = 6$	$6 - 6 = 0$	$6 - 0 = 6$
$1 + 6 = 7$	$6 + 1 = 7$	$7 - 6 = 1$	$7 - 1 = 6$
$2 + 6 = 8$	$6 + 2 = 8$	$8 - 6 = 2$	$8 - 2 = 6$
$3 + 6 = 9$	$6 + 3 = 9$	$9 - 6 = 3$	$9 - 3 = 6$
$4 + 6 = 10$		$10 - 6 = 4$	$10 - 4 = 6$
	$6 + 5 = 11$	$11 - 6 = 5$	
$6 + 6 = 12$		$12 - 6 = 6$	$12 - 6 = 6$
$7 + 6 = 13$	$6 + 7 = 13$	$13 - 6 = 7$	$13 - 7 = 6$
	$6 + 8 = 14$	$14 - 6 = 8$	$14 - 8 = 6$
$9 + 6 = 15$		$15 - 6 = 9$	$15 - 9 = 6$
$10 + 6 = 16$	$6 + 10 = 16$	$16 - 6 = 10$	$16 - 10 = 6$
	$6 + 11 = 17$	$17 - 6 = 11$	$17 - 11 = 6$
$12 + 6 = 18$	$6 + 12 = 18$		$18 - 12 = 6$

Lesson 9 Intention & Language

Lesson Intention

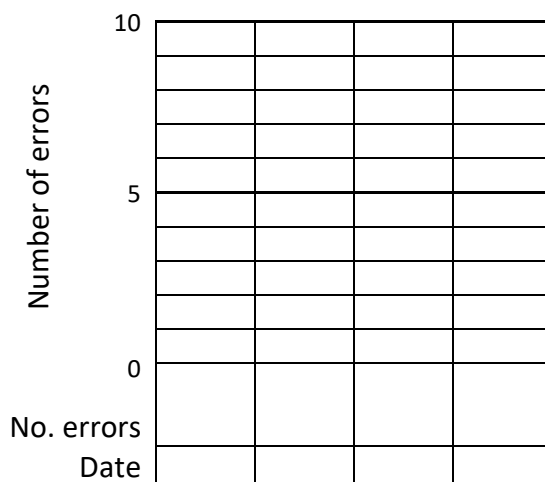
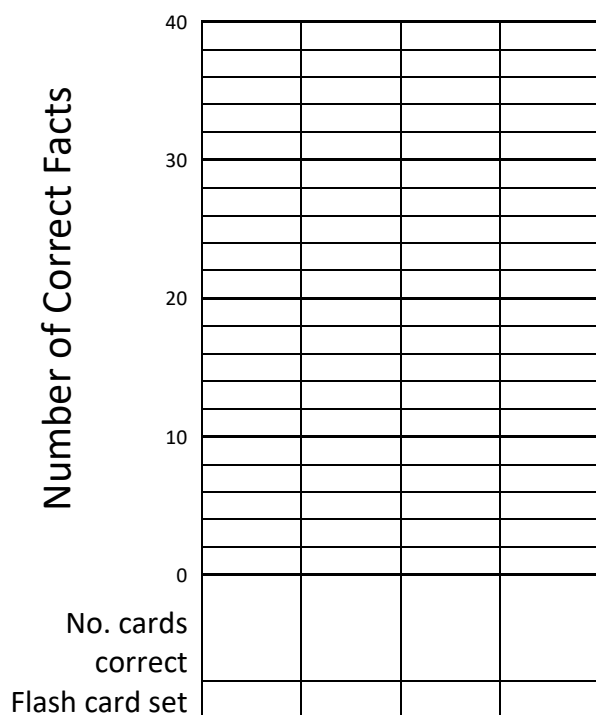
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 5, 6 and 9. In our earlier lessons, we looked at adding 5 and 9. In this lesson, our focus is adding 6. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Compute, calculate, work out.

Lesson 9 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 9 Speed Questions (+ & - 6)

Answer as many as you can in 2 minutes.

$6 + 0 = \underline{\quad}$	$12 + 6 = \underline{\quad}$	$6 + 10 = \underline{\quad}$	$5 + 6 = \underline{\quad}$
$7 + \underline{\quad} = 13$	$9 + 6 = \underline{\quad}$	$6 + 1 = \underline{\quad}$	$6 + \underline{\quad} = 7$
$\underline{\quad} + 6 = 16$	$6 + 2 = \underline{\quad}$	$6 + 11 = \underline{\quad}$	$4 + \underline{\quad} = 10$
$2 + 6 = \underline{\quad}$	$8 + 6 = \underline{\quad}$	$0 + \underline{\quad} = 6$	$6 + 3 = \underline{\quad}$
$6 + 5 = \underline{\quad}$	$12 + \underline{\quad} = 18$	$6 + \underline{\quad} = 12$	$6 - 3 = \underline{\quad}$
$7 - 6 = \underline{\quad}$	$6 + \underline{\quad} = 7$	$6 - 1 = \underline{\quad}$	$6 - 6 = \underline{\quad}$
$6 - 1 = \underline{\quad}$	$\underline{\quad} + 11 = 17$	$6 + 5 = \underline{\quad}$	$2 + 6 = \underline{\quad}$
$6 + \underline{\quad} = 16$	$\underline{\quad} + 6 = 11$	$6 - 2 = \underline{\quad}$	$\underline{\quad} + 6 = 11$
$11 + 6 = \underline{\quad}$	$6 - 4 = \underline{\quad}$	$\underline{\quad} + 6 = 13$	$\underline{\quad} + 6 = 8$
$\underline{\quad} + 6 = 9$	$6 - 2 = \underline{\quad}$	$\underline{\quad} + 10 = 16$	$7 + 6 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 9 Work Sheet

1.

a) Start at 18 and add 5 five times

18

b) Start at 15 and add 9 five times

18

c) Start at 123 and add 6 five times

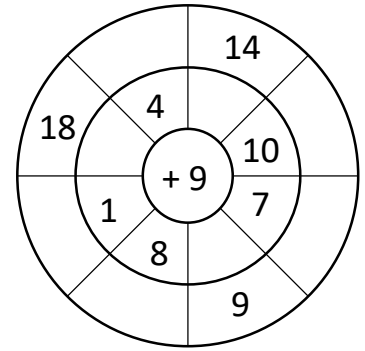
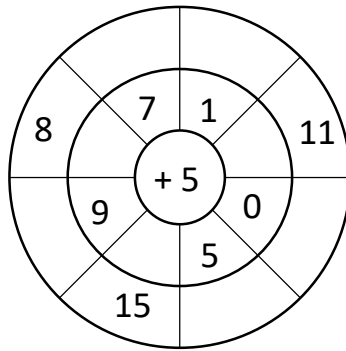
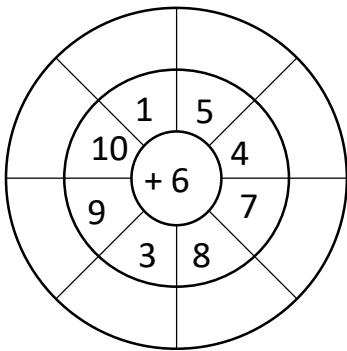
123

d) Start at 22 and add 10 five times

22

Number of Correct Answers:

2. Add the number to the middle number and write your answer in the space.



Number of Correct Answers:

3. Apply the rule to the input number to get the output number.

Input	Rule	Output
10	+6	
5	+6	
	+6	10
2	+6	
	+6	9

Input	Rule	Output
2	+5	
	+5	9
9	+9	
	+9	10
	+9	14

Number of Correct Answers:

Lesson 9: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.
How many can you correctly complete in 4 minutes?

+	6	0	2	10	4	9	5	3
5								
3								
6								
1								
5								
2								
4								
6								

Number of Correct Answers: _____

+	9	10	6	7	9	8	0	11
6								
1								
9								
2								
10								
5								
3								
4								

Number of Correct Answers: _____

Lesson 9 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of adding 5, 6 and 9 after today's lessons? Circle one below:



I am not sure/confused
about this topic



I have some questions
about this topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 10

Addition and Subtraction Facts + 7 and – 7

Fill in the blanks below

$0 + 7 = 7$	$7 + 0 = 7$	$7 - 7 = 0$	$7 - 0 = 7$
$1 + 7 = 8$	$7 + 1 = 8$	$8 - 7 = 1$	$8 - 1 = 7$
$2 + 7 = 9$	$7 + 2 = 9$	$9 - 7 = 2$	$9 - 2 = 7$
	$7 + 3 = 10$	$10 - 7 = 3$	$10 - 3 = 7$
$4 + 7 = 11$	$7 + 4 = 11$		$11 - 4 = 7$
$5 + 7 = 12$	$7 + 5 = 12$	$12 - 7 = 5$	$12 - 5 = 7$
$6 + 7 = 13$		$13 - 7 = 6$	$13 - 6 = 7$
	$7 + 7 = 14$	$14 - 7 = 7$	$14 - 7 = 7$
$8 + 7 = 15$	$7 + 8 = 15$	$15 - 7 = 8$	
$9 + 7 = 16$		$16 - 7 = 9$	$16 - 9 = 7$
$10 + 7 = 17$		$17 - 7 = 10$	$17 - 10 = 7$
$11 + 7 = 18$	$7 + 11 = 18$	$18 - 7 = 11$	$18 - 11 = 7$
	$7 + 12 = 19$	$19 - 7 = 12$	$19 - 12 = 7$

Lesson 10 Intention & Language

Lesson Intention

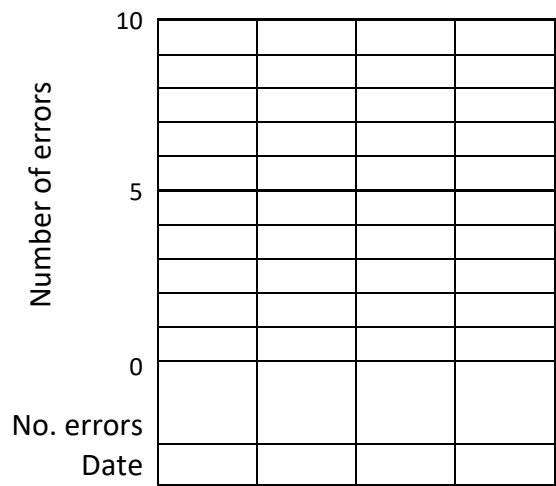
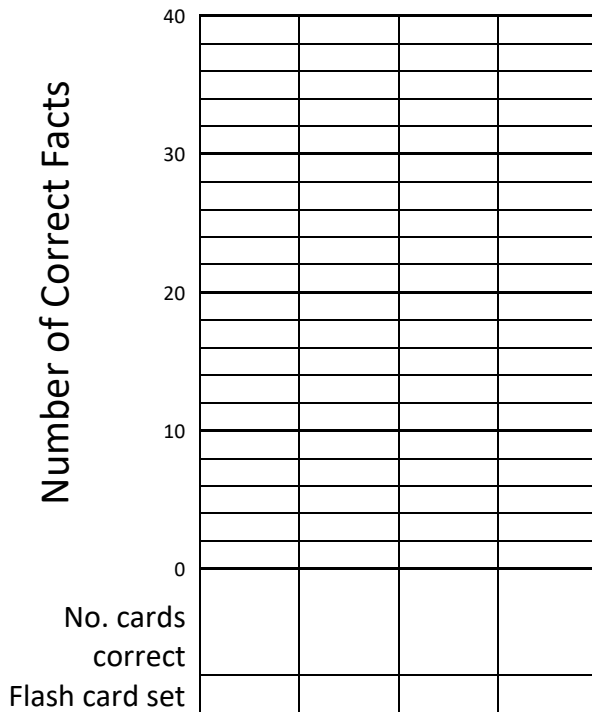
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding 7, 8 and 12. In this lesson, our focus is adding 7. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

In total, all up, grand total.

Lesson 10 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 10 Speed Questions (+ & - 7)

Answer as many as you can in 2 minutes.

$7 + 8 = \underline{\quad}$	$7 + 3 = \underline{\quad}$	$3 + 7 = \underline{\quad}$	$7 + 4 = \underline{\quad}$
$5 + 7 = \underline{\quad}$	$7 + 12 = \underline{\quad}$	$7 + 6 = \underline{\quad}$	$7 + \underline{\quad} = 18$
$7 + 2 = \underline{\quad}$	$\underline{\quad} + 7 = 17$	$\underline{\quad} + 11 = 18$	$7 + 9 = \underline{\quad}$
$9 + 7 = \underline{\quad}$	$7 - 3 = \underline{\quad}$	$\underline{\quad} + 7 = 14$	$10 + 7 = \underline{\quad}$
$\underline{\quad} + 7 = 12$	$2 + \underline{\quad} = 9$	$5 + \underline{\quad} = 12$	$7 + \underline{\quad} = 14$
$7 - 4 = \underline{\quad}$	$8 + \underline{\quad} = 15$	$7 + 8 = \underline{\quad}$	$10 - 7 = \underline{\quad}$
$5 + \underline{\quad} = 12$	$4 + 7 = \underline{\quad}$	$12 + 7 = \underline{\quad}$	$7 - 0 = \underline{\quad}$
$11 - 7 = \underline{\quad}$	$7 + 4 = \underline{\quad}$	$7 - 4 = \underline{\quad}$	$\underline{\quad} + 7 = 8$
$\underline{\quad} + 4 = 11$	$\underline{\quad} + 11 = 18$	$10 - 7 = \underline{\quad}$	$\underline{\quad} + 7 = 18$
$7 + \underline{\quad} = 14$	$7 - 6 = \underline{\quad}$	$11 + \underline{\quad} = 18$	$7 + 10 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 10 Work Sheet

1.

a) Start at 45 and add 100 five times

45

b) Start at 415 and add 100 five times

415

c) Start at 38 and add 20 five times

38

d) Start at 158 and add 60 five times

158

Number of Correct Answers:

2. Use numbers 1 to 10 to fill the empty cells so that the sum of each horizontal block of cells equals the clue number on its left, and the sum of each vertical block is the number on top. Each number can only be used once per block.

	10	8
9		
9	6	

	15	10
14		
11		6

	15	13
14	6	
14		

Number of Correct Answers:

3. Place the numbers 1 to 9 in the 3 by 3 grid so that each horizontal and vertical line adds up to the given sum. You can only use each number once. Some numbers are already placed for you.

4	5		10
	3		17
		2	18
17	17	11	

5			16
	6		14
4		9	15
16	11	18	

1			13
		4	15
3		6	17
13	17	15	

Number of Correct Answers:

Lesson 10: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	0	5	4	9	2	10	3	7
7								
2								
10								
4								
6								
3								
8								
9								

Number of Correct Answers: _____

+	7	0	6	9	5	1	7	4
6								
5								
4								
11								
3								
7								
10								
2								

Number of Correct Answers: _____

Lesson 10 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

16 8 15 27 9 14 12 17 19 13 11 10 17 21 7

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 11

Addition and Subtraction Facts + 8 and – 8

Fill in the blanks below

$0 + 8 = 8$	$8 + 0 = 8$	$8 - 8 = 0$	$8 - 0 = 8$
$1 + 8 = 9$	$8 + 1 = 9$	$9 - 8 = 1$	$9 - 1 = 8$
$2 + 8 = 10$	$8 + 2 = 10$	$10 - 8 = 2$	$10 - 2 = 8$
$3 + 8 = 11$		$11 - 8 = 3$	$11 - 3 = 8$
	$8 + 4 = 12$	$12 - 8 = 4$	$12 - 4 = 8$
$5 + 8 = 13$	$8 + 5 = 13$		$13 - 5 = 8$
$6 + 8 = 14$		$14 - 8 = 6$	$14 - 6 = 8$
	$8 + 7 = 15$	$15 - 8 = 7$	$15 - 7 = 8$
$8 + 8 = 16$	$8 + 8 = 16$	$16 - 8 = 8$	
	$8 + 9 = 17$	$17 - 8 = 9$	$17 - 9 = 8$
$10 + 8 = 18$		$18 - 8 = 10$	$18 - 10 = 8$
$11 + 8 = 19$	$8 + 11 = 19$	$19 - 8 = 11$	$19 - 11 = 8$
$12 + 8 = 20$	$8 + 12 = 20$	$20 - 8 = 12$	$20 - 12 = 8$

Lesson 11 Intention & Language

Lesson Intention

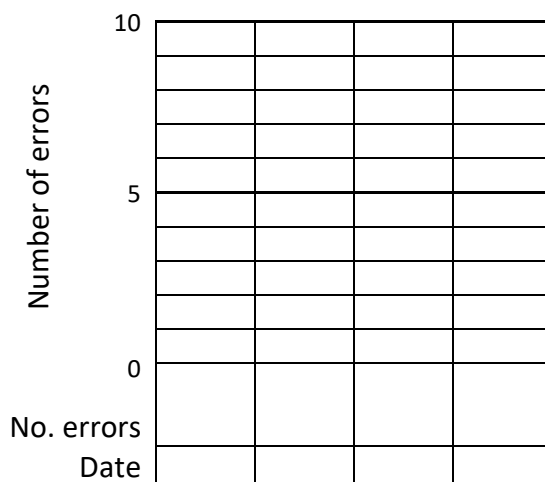
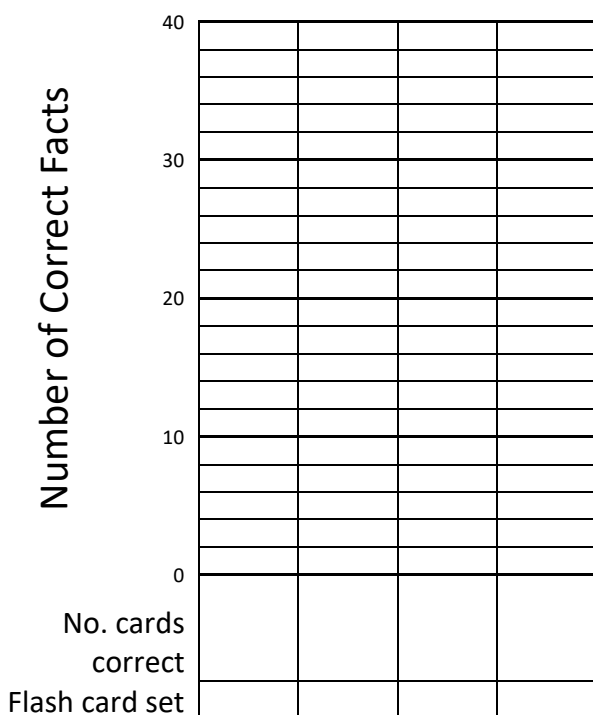
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding numbers 7, 8 and 12. In our earlier lesson we looked at adding 7. In this lesson, our focus is adding 8. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Amount, quantity, how much.

Lesson 11 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 11 Speed Questions (+ & - 8)

Answer as many as you can in 2 minutes.

Answer as many as you can in 2 minutes.

$4 + 8 = \underline{\quad}$	$8 + 0 = \underline{\quad}$	$8 + 5 = \underline{\quad}$	$8 + 12 = \underline{\quad}$
$8 + 11 = \underline{\quad}$	$\underline{\quad} + 9 = 17$	$8 - 4 = \underline{\quad}$	$7 + 8 = \underline{\quad}$
$\underline{\quad} + 9 = 17$	$4 + 8 = \underline{\quad}$	$8 + 4 = \underline{\quad}$	$8 + \underline{\quad} = 0$
$\underline{\quad} + 7 = 15$	$11 + 8 = \underline{\quad}$	$9 + \underline{\quad} = 17$	$2 + 8 = \underline{\quad}$
$10 + \underline{\quad} = 18$	$8 - 4 = \underline{\quad}$	$8 + \underline{\quad} = 11$	$8 - 0 = \underline{\quad}$
$8 + \underline{\quad} = 10$	$12 + \underline{\quad} = 20$	$8 + 12 = \underline{\quad}$	$\underline{\quad} + 8 = 17$
$1 + 8 = \underline{\quad}$	$8 + \underline{\quad} = 15$	$\underline{\quad} + 8 = 9$	$\underline{\quad} + 8 = 12$
$8 - 2 = \underline{\quad}$	$8 - 3 = \underline{\quad}$	$10 + 8 = \underline{\quad}$	$1 + \underline{\quad} = 9$
$8 - 6 = \underline{\quad}$	$6 + 8 = \underline{\quad}$	$8 - 8 = \underline{\quad}$	$8 + 3 = \underline{\quad}$
$8 + 7 = \underline{\quad}$	$\underline{\quad} + 8 = 18$	$\underline{\quad} + 8 = 19$	$8 - 7 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 11 Work Sheet

1.

a) Start at 145 and add 30 five times

145 ___ ___ ___ ___ ___

b) Start at 158 and add 60 five times

158 ___ ___ ___ ___ ___

c) Start at 198 and add 40 five times

198 ___ ___ ___ ___ ___

d) Start at 845 and add 50 five times

845 ___ ___ ___ ___ ___

Number of Correct Answers: _____

2. Fill in the squares so that the numbers in each row and column add up to the printed sums on the right and bottom

	7		14
	2	8	15
9			16
15	12	18	

	5	4	10
8			24
2	6		11
11	20	14	

	6		11
	5	7	21
3			14
13	19	14	

Number of Correct Answers: _____

3. Use the digits 0 to 9 to fill the cells in the grid. The columns must add up to the given sums at the bottom. You must use all the digits 0 to 9 in each row, but digits may be repeated in columns. The digits in unshaded connecting cells (also diagonally) must be different.

a)

		1	5		4	7	8		
	2	3	8		0	6	5		4
16	8	4	13	1	4	13	13	11	7

b)

		8	1				9	7	2
		7	4	2			5	9	3
9	1	15	5	8	4	13	14	16	5

Number of Correct Answers: _____

Lesson 11: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	6	10	1	4	5	2	0	7
8								
10								
3								
4								
9								
7								
2								
6								

Number of Correct Answers: _____

+	8	2	0	7	6	5	9	1
9								
3								
8								
7								
3								
4								
11								
5								

Number of Correct Answers: _____

Lesson 11 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

16 13 20 11 28 15 18 10 12 9 19 14 8 17 24

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 12

Addition and Subtraction Facts + 12 and – 12

Fill in the blanks below

$0 + 12 = 12$	$12 + 0 = 12$	$12 - 12 = 0$	$12 - 0 = 12$
$1 + 12 = 13$	$12 + 1 = 13$	$13 - 12 = 1$	$13 - 1 = 12$
$2 + 12 = 14$	$12 + 2 = 14$	$14 - 12 = 2$	$14 - 2 = 12$
$3 + 12 = 15$	$12 + 3 = 15$	$15 - 12 = 3$	$15 - 3 = 12$
	$12 + 4 = 16$	$16 - 12 = 4$	$16 - 4 = 12$
$5 + 12 = 17$		$17 - 12 = 5$	$17 - 5 = 12$
$6 + 12 = 18$	$12 + 6 = 18$	$18 - 12 = 6$	$18 - 6 = 12$
$7 + 12 = 19$		$19 - 12 = 7$	$19 - 7 = 12$
	$12 + 8 = 20$	$20 - 12 = 8$	$20 - 8 = 12$
$9 + 12 = 21$	$12 + 9 = 21$		$21 - 9 = 12$
	$12 + 10 = 22$	$22 - 12 = 10$	$22 - 10 = 12$
$11 + 12 = 23$		$23 - 12 = 11$	$23 - 11 = 12$
$12 + 12 = 24$	$12 + 12 = 24$	$24 - 12 = 12$	

Lesson 12 Intention & Language

Lesson Intention

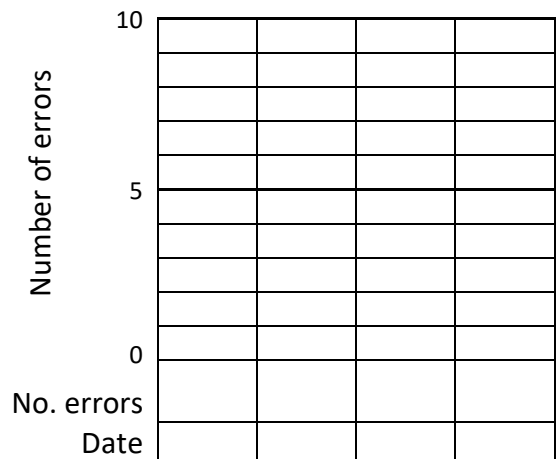
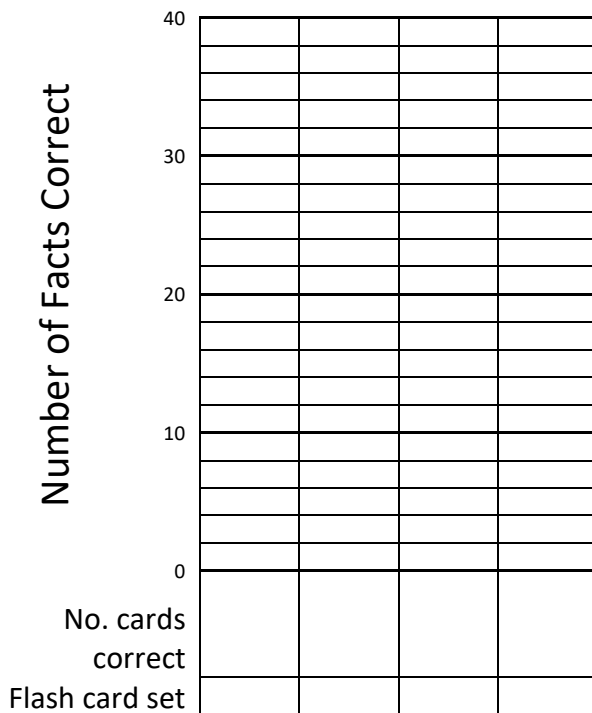
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today our focus is on adding 7, 8 and 12. In our earlier lessons we looked at adding 7 and 8. In this lesson our focus is adding 12. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

How many, add up, count up.

Lesson 12 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 12 Speed Questions (+ & - 12)

Answer as many as you can in 2 minutes.

$12 + 4 = \underline{\quad}$	$12 + 5 = \underline{\quad}$	$12 + 3 = \underline{\quad}$	$11 + 12 = \underline{\quad}$
$8 + 12 = \underline{\quad}$	$0 + 12 = \underline{\quad}$	$12 - 2 = \underline{\quad}$	$12 + 7 = \underline{\quad}$
$12 - 10 = \underline{\quad}$	$12 + \underline{\quad} = 18$	$\underline{\quad} + 12 = 21$	$12 + \underline{\quad} = 20$
$1 + 12 = \underline{\quad}$	$12 - 0 = \underline{\quad}$	$\underline{\quad} + 7 = 19$	$12 - 9 = \underline{\quad}$
$\underline{\quad} + 10 = 22$	$\underline{\quad} + 12 = 14$	$12 + \underline{\quad} = 24$	$\underline{\quad} + 12 = 16$
$12 - 8 = \underline{\quad}$	$12 + 10 = \underline{\quad}$	$12 + 7 = \underline{\quad}$	$9 + 12 = \underline{\quad}$
$12 + \underline{\quad} = 14$	$\underline{\quad} + 11 = 23$	$2 + 12 = \underline{\quad}$	$12 - 12 = \underline{\quad}$
$\underline{\quad} + 11 = 23$	$12 - 1 = \underline{\quad}$	$12 + \underline{\quad} = 23$	$\underline{\quad} + 2 = 14$
$3 + \underline{\quad} = 15$	$12 + 12 = \underline{\quad}$	$12 - 4 = \underline{\quad}$	$3 + 12 = \underline{\quad}$
$12 + 11 = \underline{\quad}$	$3 + \underline{\quad} = 15$	$6 + 12 = \underline{\quad}$	$4 + \underline{\quad} = 16$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 12 Work Sheet

1. If the '4' became a '2'; how much bigger would the new number be?

a) 641 _____

d) 4295 _____

b) 475 _____

e) 6040 _____

c) 1324 _____

f) 6427 _____

Number of Correct Answers: _____

2. Choose numbers from the box to complete the addition number sentences.

5 6 7 10 12 18

$$\boxed{9} + \boxed{3} = \boxed{}$$

$$\boxed{6} + \boxed{12} = \boxed{}$$

$$\boxed{} + \boxed{12} = \boxed{17}$$

$$\boxed{12} + \boxed{} = \boxed{19}$$

$$\boxed{} + \boxed{6} = \boxed{12}$$

$$\boxed{12} + \boxed{} = \boxed{22}$$

Number of Correct Answers: _____

3. Use the digits 0 to 9 to fill the cells in the grid. The columns must add up to the given sums at the bottom. You must use all the digits 0 to 9 in each row, but digits may be repeated in columns. The digits in connecting unshaded cells (also diagonally) must be different.

a)

	3	5				7	4		0
6			4	8			5	1	
7	5	12	6	17	6	16	9	9	3

b)

5	4		1		2	9			
	2		4	7		5			0
13	6	15	5	10	8	14	1	11	7

Number of Correct Answers: _____

Lesson 12: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	6	12	1	4	5	2	0	7
7								
2								
6								
4								
9								
8								
10								
3								

Number of Correct Answers: _____

+	6	5	9	11	8	2	0	7
9								
11								
8								
7								
3								
4								
12								
5								

Number of Correct Answers: _____

Lesson 12 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of adding 7, 8 and 12 after today's lessons? Circle one below:



I am not sure/confused
about this topic



I have some questions
about this topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 13

Addition and Subtraction Facts + and – 0 to 12

Fill in the blanks below

$0 + 10 = 10$	$10 + 0 = 10$	$10 - 0 = 10$
$1 + 9 = 10$	$9 + 1 = 10$	$10 - 9 = 1$
$2 + 0 = 2$		$2 - 0 = 2$
	$2 - 2 = 0$	
	$5 + 3 = 8$	$8 - 5 = 3$
	$8 - 3 = 5$	
$4 + 11 = 15$	$11 + 4 = 15$	$15 - 4 = 11$
$5 + 3 = 8$	$3 + 5 = 8$	$8 - 3 = 5$
$6 + 1 = 7$		$7 - 1 = 6$
	$7 - 6 = 1$	
$7 + 7 = 14$	$7 + 7 = 14$	$14 - 7 = 7$
	$4 + 8 = 12$	$12 - 4 = 8$
	$12 - 8 = 4$	
$9 + 2 = 11$	$2 + 9 = 11$	$11 - 2 = 9$
$10 + 8 = 18$	$8 + 10 = 18$	$18 - 10 = 8$
$11 + 6 = 17$		$17 - 6 = 11$
	$17 - 11 = 5$	
	$12 + 12 = 24$	$24 - 12 = 12$
	$24 - 12 = 12$	$24 - 12 = 12$

Lesson 13 Intention & Language

Lesson Intention

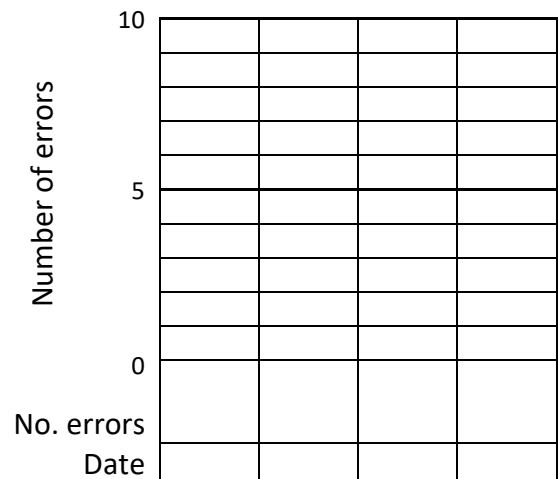
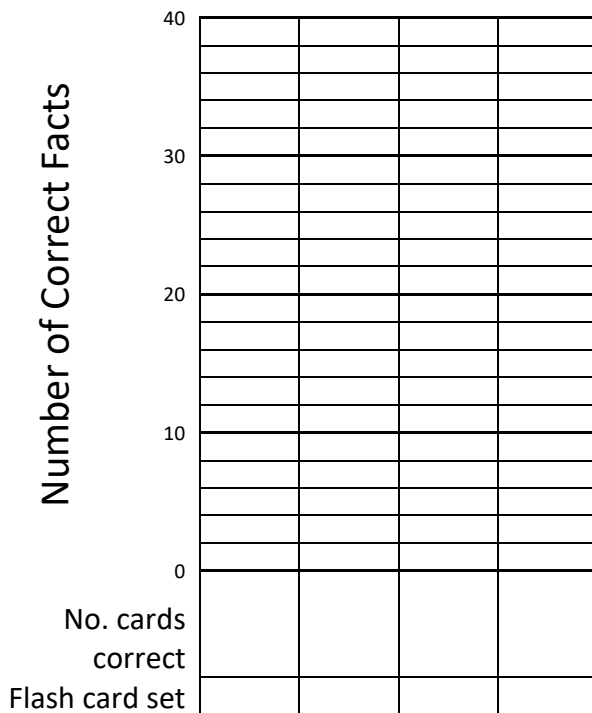
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding numbers from 0 to 12, and subtracting 0, 1 and 2. In this lesson, our focus is adding all the numbers from 0 to 12. While you may know these number facts, can you give answers that are fast and correct?

Lesson Language

Add, sum, plus, total, addition, increase.

Lesson 13 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 13 Speed Questions (All + & -)

Answer as many as you can in 2 minutes.

$4 + 10 = \underline{\quad}$	$10 + 8 = \underline{\quad}$	$7 + 1 = \underline{\quad}$	$10 + 3 = \underline{\quad}$
$10 + 2 = \underline{\quad}$	$4 + 7 = \underline{\quad}$	$\underline{\quad} + 1 = 10$	$7 - 4 = \underline{\quad}$
$12 + 2 = \underline{\quad}$	$1 + 8 = \underline{\quad}$	$9 - 5 = \underline{\quad}$	$8 + 12 = \underline{\quad}$
$\underline{\quad} + 4 = 11$	$8 + \underline{\quad} = 19$	$11 + 11 = \underline{\quad}$	$3 + 8 = \underline{\quad}$
$8 - 2 = \underline{\quad}$	$7 + \underline{\quad} = 14$	$9 + 1 = \underline{\quad}$	$11 + \underline{\quad} = 14$
$1 + \underline{\quad} = 9$	$12 - 3 = \underline{\quad}$	$6 + 7 = \underline{\quad}$	$\underline{\quad} + 10 = 17$
$\underline{\quad} + 1 = 4$	$7 - 4 = \underline{\quad}$	$1 + \underline{\quad} = 8$	$\underline{\quad} + 3 = 15$
$10 - 7 = \underline{\quad}$	$\underline{\quad} + 3 = 8$	$2 + \underline{\quad} = 6$	$11 - 5 = \underline{\quad}$
$6 + 12 = \underline{\quad}$	$3 + 10 = \underline{\quad}$	$\underline{\quad} + 11 = 13$	$10 + 9 = \underline{\quad}$
$2 + \underline{\quad} = 5$	$\underline{\quad} + 2 = 11$	$11 - 8 = \underline{\quad}$	$2 + \underline{\quad} = 4$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 13 Work Sheet

1.

a) Start at 115 and add 10 five times

115

b) Start at 58 and add 50 five times

58

c) Start at 8 and add 40 five times

8

d) Start at 35 and add 60 five times

35

Number of Correct Answers:

2. Fill in the squares. The numbers in each row and column add to give the products on the right and bottom.

0		1
	3	
8		

6		8
	5	15

4		6
9		
	12	

7	5	
6		
	10	

6		13
3		
	17	

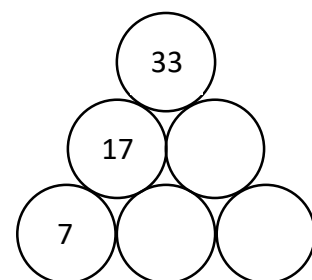
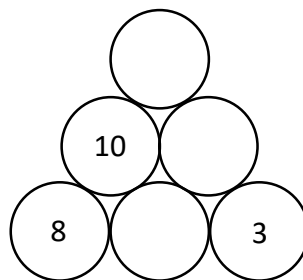
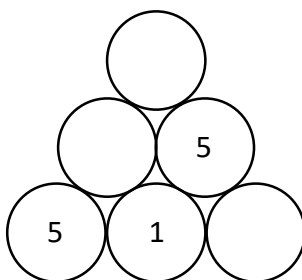
	1	
4		4
12		

	9	11
3		
	16	

9		9
8	4	

Number of Correct Answers:

3. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers.



Number of Correct Answers:

Lesson 13: Four Minute Addition Frenzy

Write the sum of the column and row numbers in each space.

How many can you correctly complete in 4 minutes?

+	0	11	6	3	1	10	5	4	7	9	2	12	8
8													
2													
9													
7													
4													
5													
10													
1													
6													
12													

Number of Correct Answers: _____

Lesson 13 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

17 9 10 15 12 16 20 13 8 1 21 18 4 7 0

Cross off the numbers in the grid if they answer a given question. Call out “Bingo” if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 14

Addition and Subtraction Facts + 0 and – 0

Fill in the blanks below

$0 + 0 = 0$	$0 + 0 = 0$	$0 - 0 = 0$	$0 - 0 = 0$
$1 + 0 = 1$	$0 + 1 = 1$	$1 - 0 = 1$	$1 - 1 = 0$
$2 + 0 = 2$	$0 + 2 = 2$	$2 - 0 = 2$	$2 - 2 = 0$
$3 + 0 = 3$	$0 + 3 = 3$		$3 - 3 = 0$
$4 + 0 = 4$	$0 + 4 = 4$	$4 - 0 = 4$	$4 - 4 = 0$
$5 + 0 = 5$	$0 + 5 = 5$	$5 - 0 = 5$	
	$0 + 6 = 6$	$6 - 0 = 6$	$6 - 6 = 0$
$7 + 0 = 7$	$0 + 7 = 7$		$7 - 7 = 0$
$8 + 0 = 8$		$8 - 0 = 8$	$8 - 8 = 0$
$9 + 0 = 9$	$0 + 9 = 9$	$9 - 0 = 9$	$9 - 9 = 0$
$10 + 0 = 10$	$0 + 10 = 10$	$10 - 0 = 10$	$10 - 10 = 0$
$11 + 0 = 11$	$0 + 11 = 11$	$11 - 0 = 11$	
$12 + 0 = 12$	$0 + 12 = 12$	$12 - 0 = 12$	$12 - 12 = 0$

Addition and Subtraction Facts + 1 and – 1

$0 + 1 = 1$	$1 + 0 = 1$	$1 - 1 = 0$	$1 - 0 = 1$
$1 + 1 = 2$	$1 + 1 = 2$	$2 - 1 = 1$	$2 - 1 = 1$
$2 + 1 = 3$	$1 + 2 = 3$	$3 - 1 = 2$	$3 - 2 = 1$
$3 + 1 = 4$	$1 + 3 = 4$		$4 - 3 = 1$
	$1 + 4 = 5$	$5 - 1 = 4$	$5 - 4 = 1$
$5 + 1 = 6$	$1 + 5 = 6$		$6 - 5 = 1$
$6 + 1 = 7$	$1 + 6 = 7$	$7 - 1 = 6$	$7 - 6 = 1$
$7 + 1 = 8$	$1 + 7 = 8$	$8 - 1 = 7$	$8 - 7 = 1$
$8 + 1 = 9$	$1 + 8 = 9$	$9 - 1 = 8$	
$9 + 1 = 10$	$1 + 9 = 10$	$10 - 1 = 9$	
$10 + 1 = 11$		$11 - 1 = 10$	$11 - 10 = 1$
$11 + 1 = 12$	$1 + 11 = 12$	$12 - 1 = 11$	$12 - 11 = 1$
$12 + 1 = 13$	$1 + 12 = 13$	$13 - 1 = 12$	$13 - 12 = 1$

Lesson 14 Intention & Language

Lesson Intention

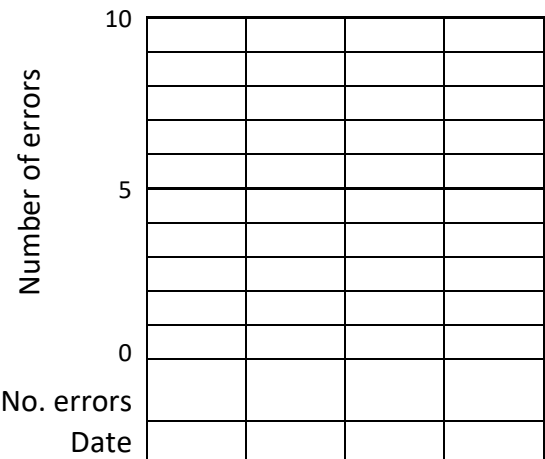
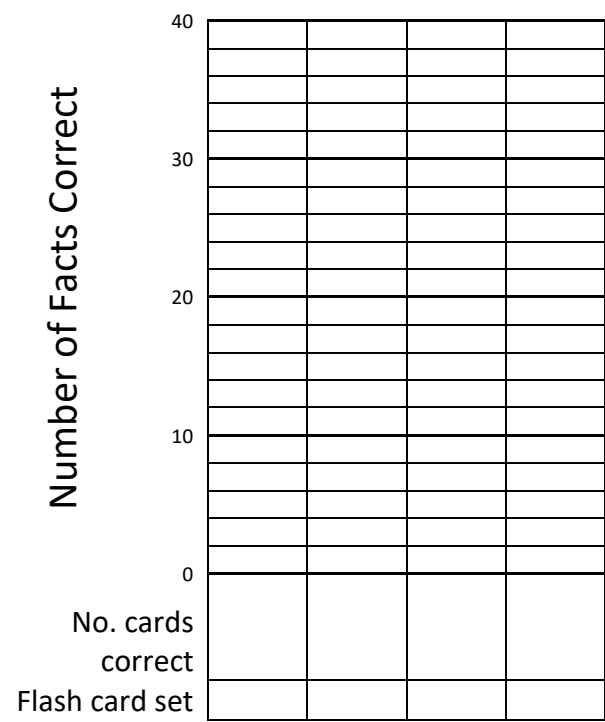
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding numbers from 0 to 12, and subtracting 0, 1 and 2. In our earlier lessons, we looked at adding numbers from 0 to 10. In this lesson, our focus is subtracting 0 and 1. While you may know these number facts, can you give answers that are fast and correct?

Lesson Language

Subtract, none, zero.

Lesson 14 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 14 Speed Questions (+, - 0 & 1)

Answer as many as you can in 2 minutes.

$4 - 1 = \underline{\quad}$	$2 - 1 = \underline{\quad}$	$5 - 0 = \underline{\quad}$	$2 + 0 = \underline{\quad}$
$11 - 1 = \underline{\quad}$	$1 + 11 = \underline{\quad}$	$10 - \underline{\quad} = 10$	$\underline{\quad} - 1 = 11$
$9 - 0 = \underline{\quad}$	$\underline{\quad} - 0 = 1$	$8 - 1 = \underline{\quad}$	$3 - \underline{\quad} = 3$
$1 + 1 = \underline{\quad}$	$3 - 1 = \underline{\quad}$	$12 - \underline{\quad} = 11$	$6 - 0 = \underline{\quad}$
$7 - \underline{\quad} = 6$	$10 - 1 = \underline{\quad}$	$1 + 4 = \underline{\quad}$	$9 - 0 = \underline{\quad}$
$1 - \underline{\quad} = 1$	$1 + 1 = \underline{\quad}$	$6 - 1 = \underline{\quad}$	$8 - 0 = \underline{\quad}$
$1 + 5 = \underline{\quad}$	$7 - \underline{\quad} = 7$	$\underline{\quad} - 0 = 1$	$0 - 0 = \underline{\quad}$
$9 - 1 = \underline{\quad}$	$\underline{\quad} - 0 = 0$	$10 - 1 = \underline{\quad}$	$7 - \underline{\quad} = 7$
$\underline{\quad} - 0 = 1$	$12 - 1 = \underline{\quad}$	$0 + 7 = \underline{\quad}$	$\underline{\quad} - 1 = 2$
$\underline{\quad} - 0 = 9$	$2 - \underline{\quad} = 1$	$\underline{\quad} - 0 = 10$	$10 + 0 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 14 Work Sheet

1. a) Circle the number two thousand and thirty seven
2307 2370 2037 2073
- b) Circle the number three thousand and fifty four
3054 3504 3540 3045
- c) Circle the number seven thousand, one hundred and three
1370 7013 7130 7103

Number of Correct Answers: _____

2. Fill in the squares. Subtract across and down. The first has been done for you.

4	2	2
3	1	

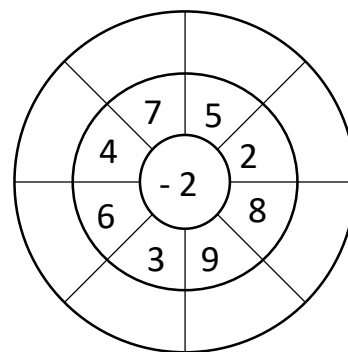
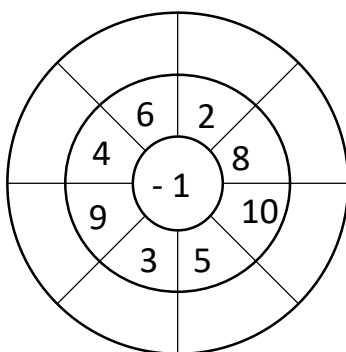
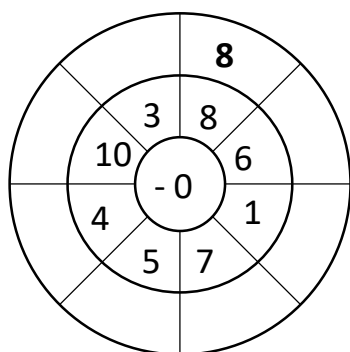
7	3	
1	0	

9	6	
1	0	

Number of Correct Answers: _____

Lesson 14: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. The first has been done for you. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 14 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

23 16 10 20 17 15 11 12 9 8 5 1 0 4 3

Cross off the numbers in the grid if they answer a given question. Call out “Bingo” if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 15

Addition and Subtraction Facts + 2 and - 2

Fill in the blanks below

$0 + 2 = 2$	$2 + 0 = 2$	$2 - 2 = 0$	$2 - 0 = 2$
$1 + 2 = 3$	$2 + 1 = 3$	$3 - 2 = 1$	$3 - 1 = 2$
$2 + 2 = 4$	$2 + 2 = 4$	$4 - 2 = 2$	$4 - 2 = 2$
$3 + 2 = 5$	$2 + 3 = 5$		$5 - 3 = 2$
$4 + 2 = 6$	$2 + 4 = 6$		$6 - 4 = 2$
	$2 + 5 = 7$	$7 - 2 = 5$	
$6 + 2 = 8$	$2 + 6 = 8$	$8 - 2 = 6$	$8 - 6 = 2$
$7 + 2 = 9$		$9 - 2 = 7$	$9 - 7 = 2$
$8 + 2 = 10$	$2 + 8 = 10$	$10 - 2 = 8$	
$9 + 2 = 11$	$2 + 9 = 11$		$11 - 9 = 2$
$10 + 2 = 12$	$2 + 10 = 12$	$12 - 2 = 10$	$12 - 10 = 2$
$11 + 2 = 13$	$2 + 11 = 13$	$13 - 2 = 11$	
$12 + 2 = 14$	$2 + 12 = 14$	$14 - 2 = 12$	$14 - 12 = 2$

Lesson 15 Intention & Language

Lesson Intention

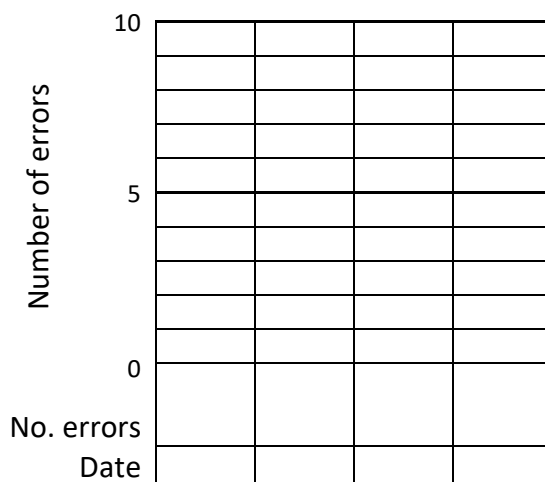
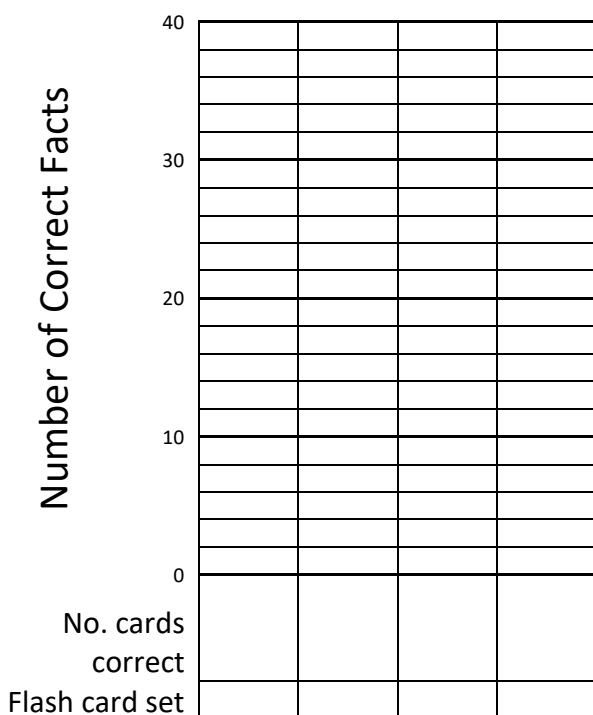
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on adding numbers from 0 to 12, and subtracting 0, 1 and 2. In our earlier lessons we looked at adding numbers from 0 to 12, and subtracting 0 and 1. In this lesson, our focus is subtracting 2. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Minus, take away, subtraction.

Lesson 15 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 15 Speed Questions (+ & - 2)

Answer as many as you can in 2 minutes.

Answer as many as you can in 2 minutes.

$6 - 2 = \underline{\quad}$	$5 - 2 = \underline{\quad}$	$8 - 2 = \underline{\quad}$	$7 - 2 = \underline{\quad}$
$9 - 2 = \underline{\quad}$	$2 - 2 = \underline{\quad}$	$12 - 2 = \underline{\quad}$	$5 - 2 = \underline{\quad}$
$11 - 2 = \underline{\quad}$	$\underline{\quad} - 2 = 8$	$2 - 0 = \underline{\quad}$	$4 - 2 = \underline{\quad}$
$4 - 2 = \underline{\quad}$	$7 - \underline{\quad} = 5$	$3 - 2 = \underline{\quad}$	$\underline{\quad} - 2 = 9$
$\underline{\quad} - 2 = 5$	$9 - 2 = \underline{\quad}$	$7 - \underline{\quad} = 5$	$\underline{\quad} - 0 = 2$
$2 + 6 = \underline{\quad}$	$\underline{\quad} - 2 = 4$	$2 - \underline{\quad} = 2$	$3 + 2 = \underline{\quad}$
$2 - \underline{\quad} = 1$	$12 + 2 = \underline{\quad}$	$2 + 1 = \underline{\quad}$	$4 - \underline{\quad} = 2$
$3 - \underline{\quad} = 1$	$4 + 2 = \underline{\quad}$	$\underline{\quad} - 2 = 8$	$2 - \underline{\quad} = 1$
$12 + 2 = \underline{\quad}$	$11 - \underline{\quad} = 9$	$2 + 10 = \underline{\quad}$	$12 - 2 = \underline{\quad}$
$\underline{\quad} - 2 = 9$	$9 - 2 = \underline{\quad}$	$\underline{\quad} - 1 = 1$	$2 + 12 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 15 Work Sheet

1.

a. Start at 27 and subtract 3 five times

27 9

b. Start at 39 and subtract 6 five times

39 3

c. Start at 52 and subtract 4 five times

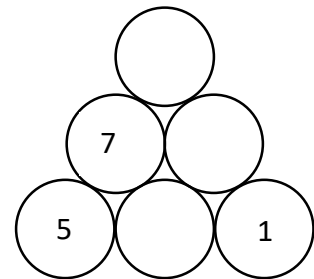
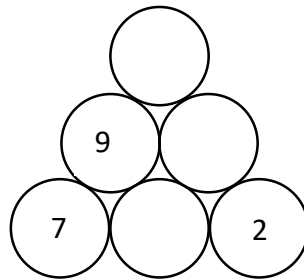
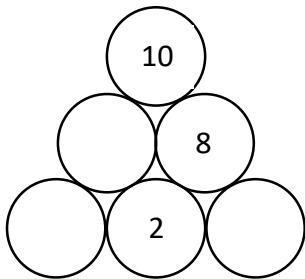
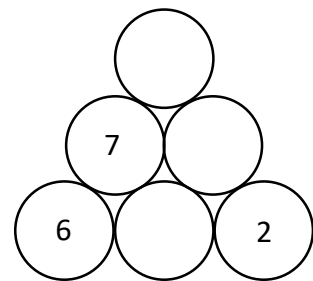
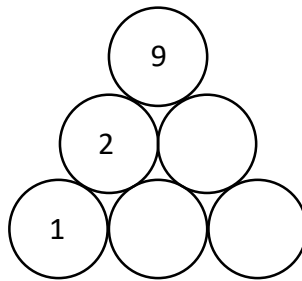
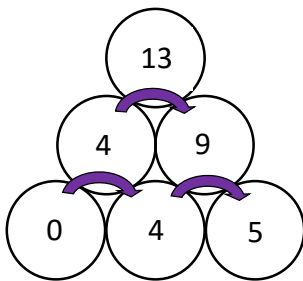
52 28

d. Start at 91 and subtract 8 five times

91 43

Number of Correct Answers:

2. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers. The first one is done for you.



Number of Correct Answers:

3. Choose numbers from the box to complete the subtraction number sentences.

0	1	2	6	7	8
---	---	---	---	---	---

$$\boxed{9} - \boxed{2} = \boxed{}$$

$$\boxed{10} - \boxed{9} = \boxed{}$$

$$\boxed{} - \boxed{2} = \boxed{6}$$

$$\boxed{6} - \boxed{} = \boxed{4}$$

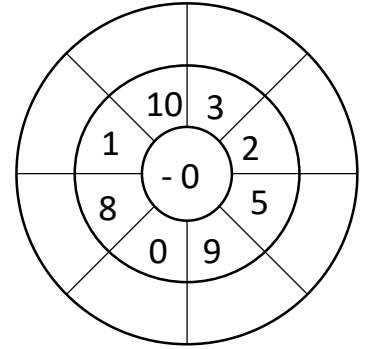
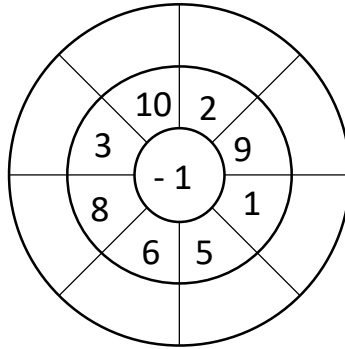
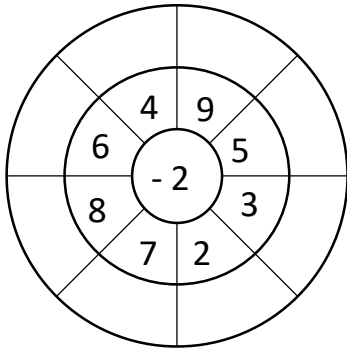
$$\boxed{} - \boxed{0} = \boxed{6}$$

$$\boxed{9} - \boxed{} = \boxed{9}$$

Number of Correct Answers:

Lesson 15: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 15 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topics of adding numbers from 0 to 12 and subtracting 0, 1 and 2 after today's lessons? Circle one below:



I am not sure/confused
about this topic



I have some idea but
questions about this
topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 16

Addition and Subtraction Facts + 4 and - 4

Fill in the blanks below

$0 + 4 = 4$	$4 + 0 = 4$	$4 - 4 = 0$	$4 - 0 = 4$
$1 + 4 = 5$	$4 + 1 = 5$	$5 - 4 = 1$	$5 - 1 = 4$
$2 + 4 = 6$	$4 + 2 = 6$	$6 - 4 = 2$	$6 - 2 = 4$
$3 + 4 = 7$	$4 + 3 = 7$	$7 - 4 = 3$	$7 - 3 = 4$
	$4 + 4 = 8$	$8 - 4 = 4$	$8 - 4 = 4$
$5 + 4 = 9$		$9 - 4 = 5$	$9 - 5 = 4$
$6 + 4 = 10$	$4 + 6 = 10$		$10 - 6 = 4$
$7 + 4 = 11$	$4 + 7 = 11$	$11 - 4 = 7$	
$8 + 4 = 12$	$4 + 8 = 12$		$12 - 8 = 4$
$9 + 4 = 13$	$4 + 9 = 13$	$13 - 4 = 9$	
$10 + 4 = 14$	$4 + 10 = 14$	$14 - 4 = 10$	
$11 + 4 = 15$	$4 + 11 = 15$	$15 - 4 = 11$	$15 - 11 = 4$
$12 + 4 = 16$	$4 + 12 = 16$		$16 - 12 = 4$

Lesson 16 Intention & Language

Lesson Intention

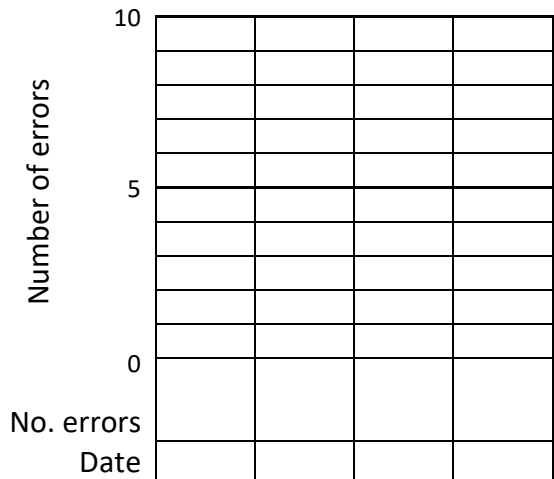
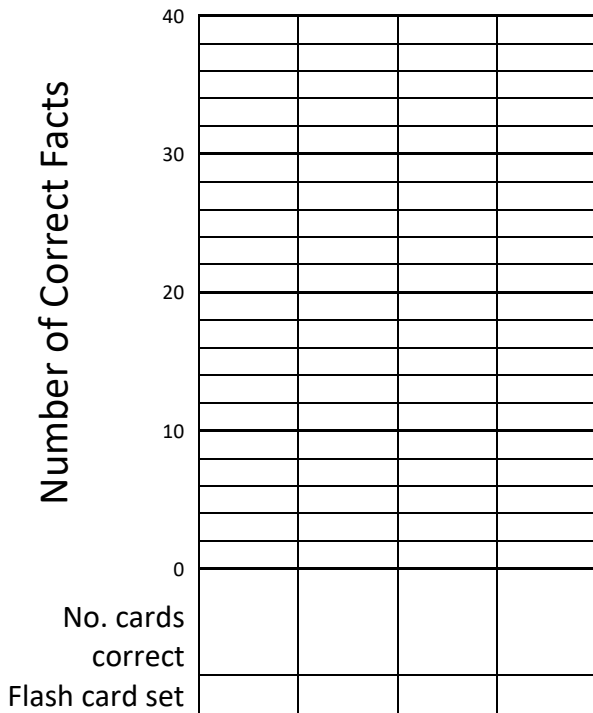
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 3, 4 and 10. In this lesson, our focus is subtracting 4. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Difference, difference between, how much more.

Lesson 16 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 16 Speed Questions (+ & - 4)

Answer as many as you can in 2 minutes.

Answer as many as you can in 2 minutes.

$4 + 7 = \underline{\quad}$	$4 - 3 = \underline{\quad}$	$4 - 1 = \underline{\quad}$	$6 + 4 = \underline{\quad}$
$8 - 4 = \underline{\quad}$	$11 - 4 = \underline{\quad}$	$4 - 3 = \underline{\quad}$	$8 - \underline{\quad} = 4$
$4 - \underline{\quad} = 0$	$\underline{\quad} - 4 = 1$	$0 + 4 = \underline{\quad}$	$9 - 4 = \underline{\quad}$
$4 - \underline{\quad} = 1$	$6 - 4 = \underline{\quad}$	$2 + 4 = \underline{\quad}$	$5 - 4 = \underline{\quad}$
$4 - 0 = \underline{\quad}$	$4 - 4 = \underline{\quad}$	$4 - 2 = \underline{\quad}$	$\underline{\quad} - 4 = 0$
$12 + 4 = \underline{\quad}$	$4 - \underline{\quad} = 2$	$\underline{\quad} - 4 = 1$	$5 - \underline{\quad} = 1$
$4 - 1 = \underline{\quad}$	$7 - \underline{\quad} = 3$	$\underline{\quad} - 4 = 7$	$6 - 4 = \underline{\quad}$
$\underline{\quad} - 3 = 1$	$0 + 4 = \underline{\quad}$	$8 - \underline{\quad} = 4$	$\underline{\quad} - 4 = 4$
$\underline{\quad} - 4 = 4$	$\underline{\quad} - 3 = 1$	$5 - \underline{\quad} = 1$	$4 + 6 = \underline{\quad}$
$7 - 4 = \underline{\quad}$	$4 + 1 = \underline{\quad}$	$11 - 4 = \underline{\quad}$	$10 - 4 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 16 Work Sheet

1. a) Circle the number five thousand and forty six
5406 5460 5464 5046
- b) Circle the number four thousand and seven
4070 4007 4700 4707
- c) Circle the number two thousand, three hundred and four
2304 2340 2034 2043

Number of Correct Answers: _____

2. Fill in the squares. Subtract across and down.

↓	→	7	4	
		4	3	

↓	→	9	4	
		3	1	

↓	→	10	2	
		4	1	

↓	→	8	2	
		3	0	

↓	→	9	5	
		4	3	

↓	→	7	6	
		4	1	

Number of Correct

3. Apply the rule to the input number to get the output number.

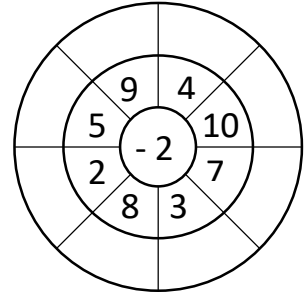
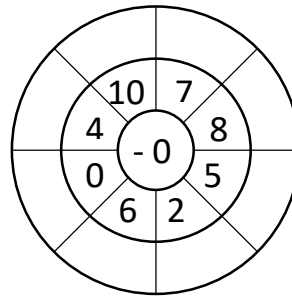
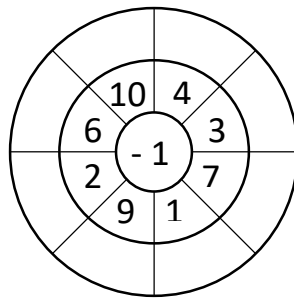
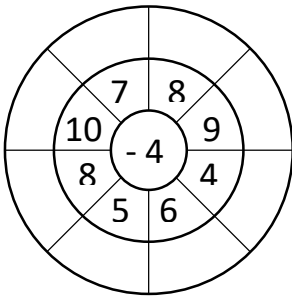
Input	Rule	Output
7	- 4	
10	- 4	
	- 4	0
8	- 4	
	- 4	5

Input	Rule	Output
4	- 2	
	- 1	6
5	- 0	
	- 1	9
	- 2	3

Number of Correct Answers: _____

Lesson 16: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 16 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

6 9 20 12 8 7 5 14 11 10 1 4 0 2 3

Cross off the numbers in the grid if they answer a given question. Call out “Bingo” if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 17

Addition and Subtraction Facts + 3 and - 3

Fill in the blanks below

$0 + 3 = 3$	$3 + 0 = 3$	$3 - 3 = 0$	$3 - 0 = 3$
$1 + 3 = 4$	$3 + 1 = 4$	$4 - 3 = 1$	$4 - 1 = 3$
$2 + 3 = 5$	$3 + 2 = 5$	$5 - 3 = 2$	$5 - 2 = 3$
$3 + 3 = 6$	$3 + 3 = 6$		$6 - 3 = 3$
$4 + 3 = 7$	$3 + 4 = 7$	$7 - 3 = 4$	$7 - 4 = 3$
$5 + 3 = 8$		$8 - 3 = 5$	$8 - 5 = 3$
$6 + 3 = 9$	$3 + 6 = 9$	$9 - 3 = 6$	
$7 + 3 = 10$	$3 + 7 = 10$	$10 - 3 = 7$	
$8 + 3 = 11$	$3 + 8 = 11$	$11 - 3 = 8$	$11 - 8 = 3$
$9 + 3 = 12$	$3 + 9 = 12$		$12 - 9 = 3$
	$3 + 10 = 13$	$13 - 3 = 10$	
$11 + 3 = 14$	$3 + 11 = 14$	$14 - 3 = 11$	$14 - 11 = 3$
$12 + 3 = 15$	$3 + 12 = 15$		$15 - 12 = 3$

Lesson 17 Intention & Language

Lesson Intention

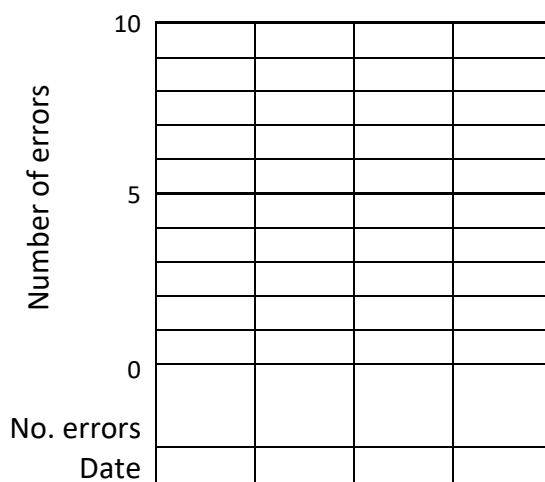
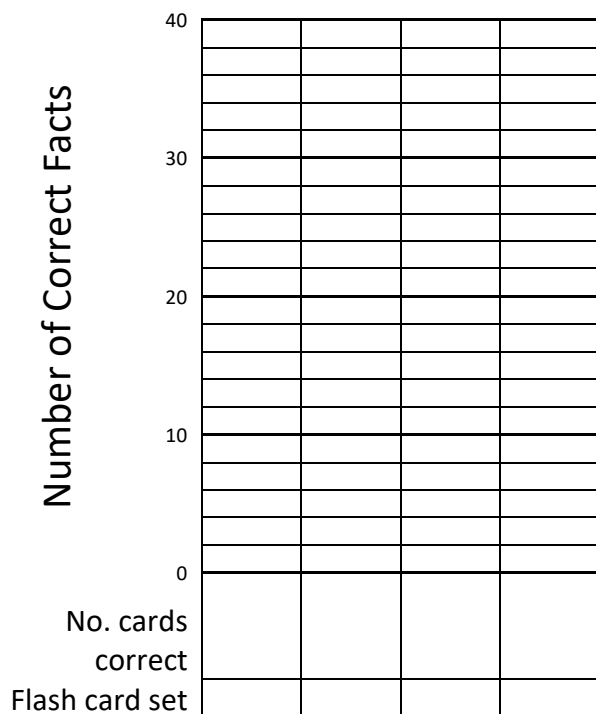
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today our focus is on subtracting 3, 4 and 10. In our earlier lesson we looked at subtracting 4. In this lesson, our focus is subtracting 3. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Exceed, decrease, decreased by.

Lesson 17 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 17 Speed Questions (+ & - 3)

Answer as many as you can in 2 minutes.

$3 - 1 = \underline{\quad}$	$4 - 3 = \underline{\quad}$	$3 + 5 = \underline{\quad}$	$8 - 3 = \underline{\quad}$
$3 + 6 = \underline{\quad}$	$3 - \underline{\quad} = 3$	$4 - \underline{\quad} = 1$	$3 - \underline{\quad} = 3$
$8 - 3 = \underline{\quad}$	$4 - \underline{\quad} = 1$	$3 + 9 = \underline{\quad}$	$7 - \underline{\quad} = 4$
$8 - \underline{\quad} = 5$	$5 - 3 = \underline{\quad}$	$3 - 1 = \underline{\quad}$	$2 + 3 = \underline{\quad}$
$\underline{\quad} - 3 = 0$	$9 - 3 = \underline{\quad}$	$6 - 3 = \underline{\quad}$	$\underline{\quad} - 3 = 7$
$3 - 2 = \underline{\quad}$	$\underline{\quad} - 3 = 2$	$10 - 3 = \underline{\quad}$	$3 + 5 = \underline{\quad}$
$3 - \underline{\quad} = 2$	$\underline{\quad} - 3 = 3$	$\underline{\quad} - 3 = 1$	$\underline{\quad} - 2 = 1$
$\underline{\quad} - 3 = 5$	$11 - 3 = \underline{\quad}$	$\underline{\quad} - 3 = 8$	$10 - 3 = \underline{\quad}$
$12 - 3 = \underline{\quad}$	$3 + 6 = \underline{\quad}$	$9 - 3 = \underline{\quad}$	$3 - 3 = \underline{\quad}$
$10 + 3 = \underline{\quad}$	$3 + 12 = \underline{\quad}$	$5 - \underline{\quad} = 2$	$12 - 3 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 17 Work Sheet

1. a) Circle the number seven thousand and twenty three
7203 7023 7032 7302
- b) Circle the number two thousand and three
2030 2300 2303 2003
- c) Circle the number five thousand, nine hundred and seven
5907 5970 5070 5790

Number of Correct Answers: _____

2. Use numbers 1 to 10 to fill the empty cells so that the sum of each horizontal block of cells equals the clue number on its left, and the sum of each vertical block is the number on top. Each number can only be used once per block.

	7	4
3		
8		3

	9	9
10		3
8		

	8	7
4	3	
11		

Number of Correct Answers: _____

3. Apply the rule to the input number to get the output number.

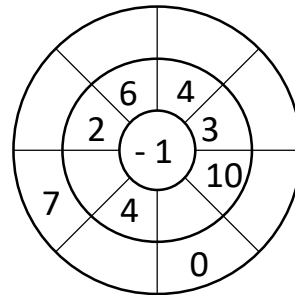
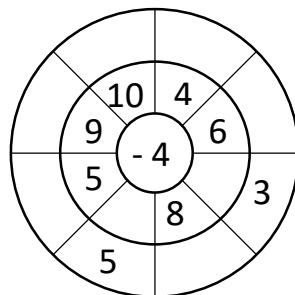
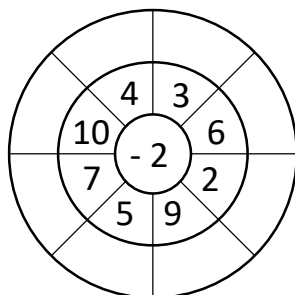
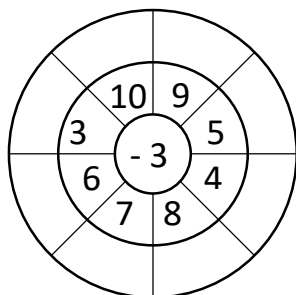
Input	Rule	Output
5	- 3	
9	- 3	
	- 3	9
11	- 3	
	- 3	0

Input	Rule	Output
4	- 4	
	- 1	8
11	- 2	
	- 4	10
	- 2	6

Number of Correct Answers: _____

Lesson 17: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 17 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

9 17 1 5 7 11 4 12 0 8 15 2 6 3 10

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 18

Addition and Subtraction Facts + 10 and – 10

Fill in the blanks below

$0 + 10 = 10$	$10 + 0 = 10$	$10 - 10 = 0$	$10 - 0 = 10$
$1 + 10 = 11$	$10 + 1 = 11$	$11 - 10 = 1$	$11 - 1 = 10$
$2 + 10 = 12$	$10 + 2 = 12$	$12 - 10 = 2$	$12 - 2 = 10$
$3 + 10 = 13$	$10 + 3 = 13$		$13 - 3 = 10$
$4 + 10 = 14$	$10 + 4 = 14$	$14 - 10 = 4$	
	$10 + 5 = 15$	$15 - 10 = 5$	$15 - 5 = 10$
$6 + 10 = 16$	$10 + 6 = 16$		$16 - 6 = 10$
$7 + 10 = 17$	$10 + 7 = 17$	$17 - 10 = 7$	$17 - 7 = 10$
$8 + 10 = 18$	$10 + 8 = 18$	$18 - 10 = 8$	
$9 + 10 = 19$	$10 + 9 = 19$		$19 - 9 = 10$
$10 + 10 = 20$		$20 - 10 = 10$	$20 - 10 = 10$
$11 + 10 = 21$	$10 + 11 = 21$	$21 - 10 = 11$	$21 - 11 = 10$
$12 + 10 = 22$	$10 + 12 = 22$	$22 - 10 = 12$	

Lesson 18 Intention & Language

Lesson Intention

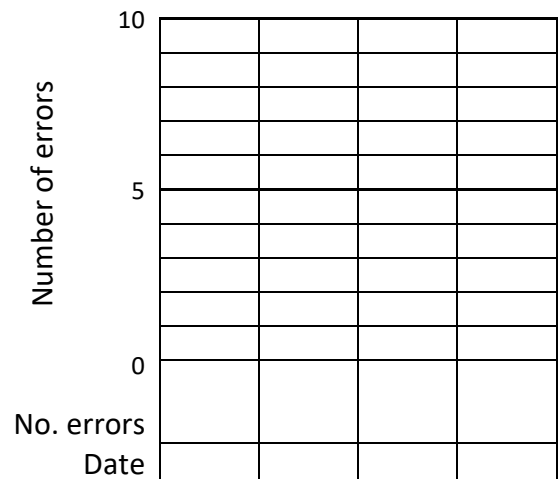
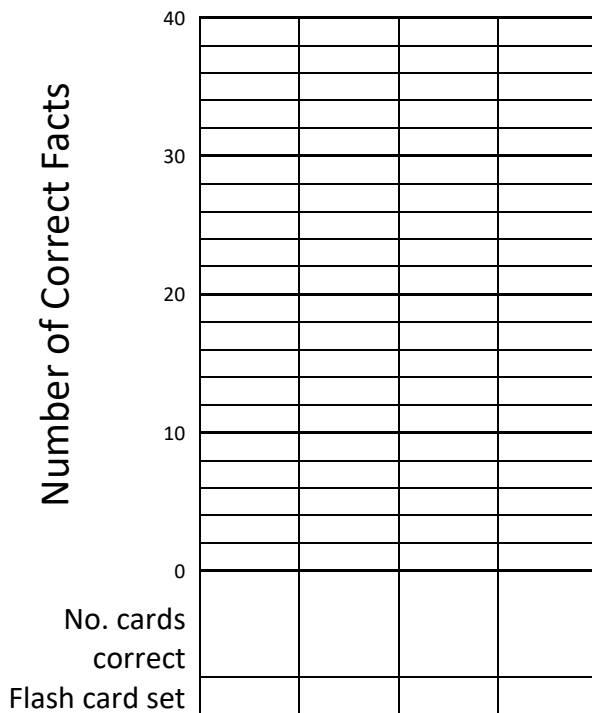
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 3, 4 and 10. In our earlier lessons we looked at subtracting 3 and 4. In this lesson, our focus is subtracting 10. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Less, reduce, reduced by.

Lesson 18 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 18 Speed Questions (+ & - 10)

Answer as many as you can in 2 minutes.

$10 - 10 = \underline{\quad}$	$10 - 1 = \underline{\quad}$	$11 - 10 = \underline{\quad}$	$12 - 10 = \underline{\quad}$
$10 - 2 = \underline{\quad}$	$15 - 10 = \underline{\quad}$	$10 + 7 = \underline{\quad}$	$22 - 10 = \underline{\quad}$
$\underline{\quad} - 9 = 1$	$13 - 10 = \underline{\quad}$	$11 + 10 = \underline{\quad}$	$16 - 10 = \underline{\quad}$
$\underline{\quad} - 5 = 5$	$\underline{\quad} - 7 = 3$	$10 - \underline{\quad} = 6$	$7 + 10 = \underline{\quad}$
$11 - \underline{\quad} = 1$	$10 + 4 = \underline{\quad}$	$11 - \underline{\quad} = 1$	$10 - \underline{\quad} = 9$
$10 - \underline{\quad} = 3$	$10 + 2 = \underline{\quad}$	$\underline{\quad} - 9 = 1$	$\underline{\quad} - 7 = 3$
$10 - 2 = \underline{\quad}$	$10 - \underline{\quad} = 0$	$19 - 10 = \underline{\quad}$	$10 - \underline{\quad} = 0$
$10 + 3 = \underline{\quad}$	$10 - \underline{\quad} = 10$	$14 - 10 = \underline{\quad}$	$\underline{\quad} - 10 = 7$
$20 - 10 = \underline{\quad}$	$\underline{\quad} - 7 = 3$	$21 - 10 = \underline{\quad}$	$8 + 10 = \underline{\quad}$
$4 + 10 = \underline{\quad}$	$10 - 5 = \underline{\quad}$	$\underline{\quad} - 1 = 9$	$10 - 10 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 18 Work Sheet

1. If the '3' became a '7'; how much bigger would the new number be?

a) 134 _____

d) 3245 _____

b) 325 _____

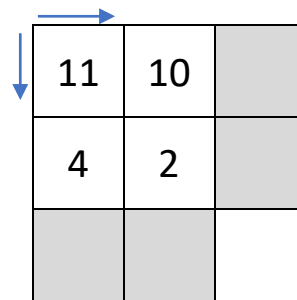
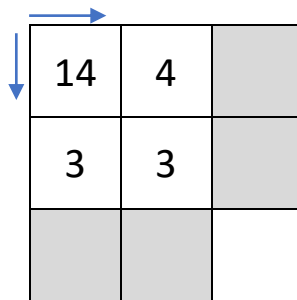
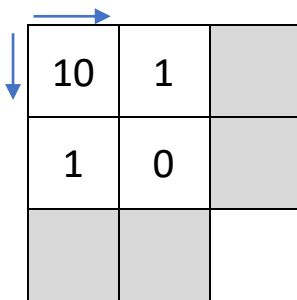
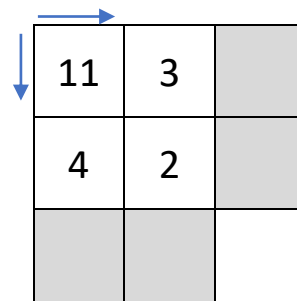
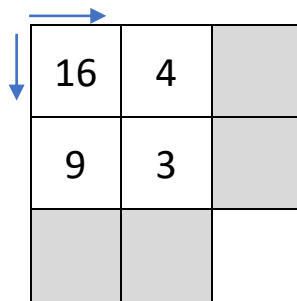
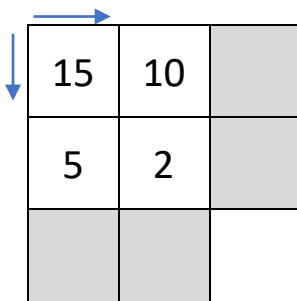
e) 1423 _____

c) 1030 _____

f) 3635 _____

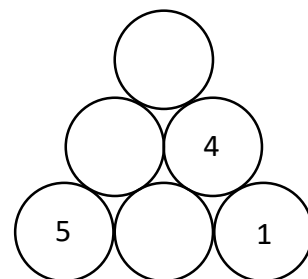
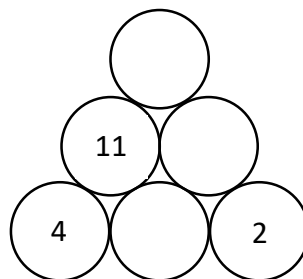
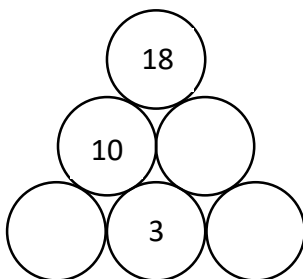
Number of Correct Answers: _____

2. Fill in the squares. Subtract across and down.



Number of Correct Answers: _____

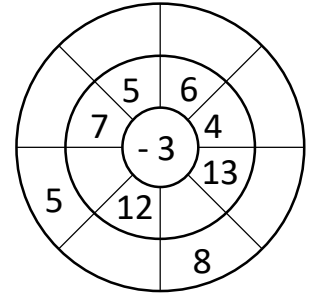
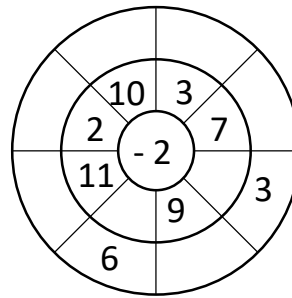
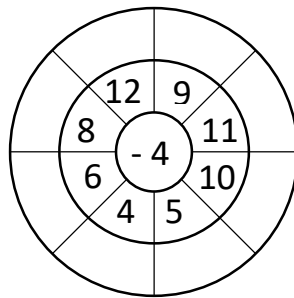
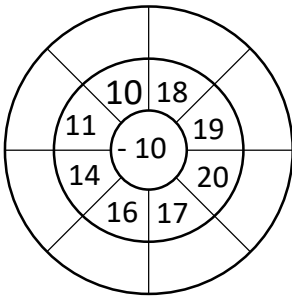
3. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers.



Number of Correct Answers: _____

Lesson 18: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 18 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of subtracting 3, 4 and 10 after today's lessons?
Circle one below:



I am not sure/confused
about this topic



I have some idea but
questions about this
topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 19

Addition and Subtraction Facts + 11 and – 11

Fill in the blanks below

$0 + 11 = 11$	$11 + 0 = 11$	$11 - 11 = 0$	$11 - 0 = 11$
$1 + 11 = 12$	$11 + 1 = 12$	$12 - 11 = 1$	$12 - 1 = 11$
$2 + 11 = 13$	$11 + 2 = 13$	$13 - 11 = 2$	$13 - 2 = 11$
$3 + 11 = 14$		$14 - 11 = 3$	$14 - 3 = 11$
$4 + 11 = 15$	$11 + 4 = 15$	$15 - 11 = 4$	$15 - 4 = 11$
$5 + 11 = 16$	$11 + 5 = 16$	$16 - 11 = 5$	
$6 + 11 = 17$	$11 + 6 = 17$		$17 - 6 = 11$
	$11 + 7 = 18$	$18 - 11 = 7$	$18 - 7 = 11$
$8 + 11 = 19$	$11 + 8 = 19$	$19 - 11 = 8$	
$9 + 11 = 20$	$11 + 9 = 20$		$20 - 9 = 11$
$10 + 11 = 21$	$11 + 10 = 21$	$21 - 11 = 10$	$21 - 10 = 11$
$11 + 11 = 22$	$11 + 11 = 22$		$22 - 11 = 11$
$12 + 11 = 23$	$11 + 12 = 23$	$23 - 11 = 12$	

Lesson 19 Intention & Language

Lesson Intention

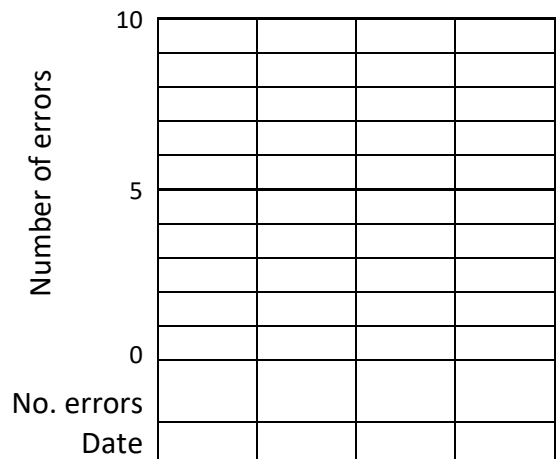
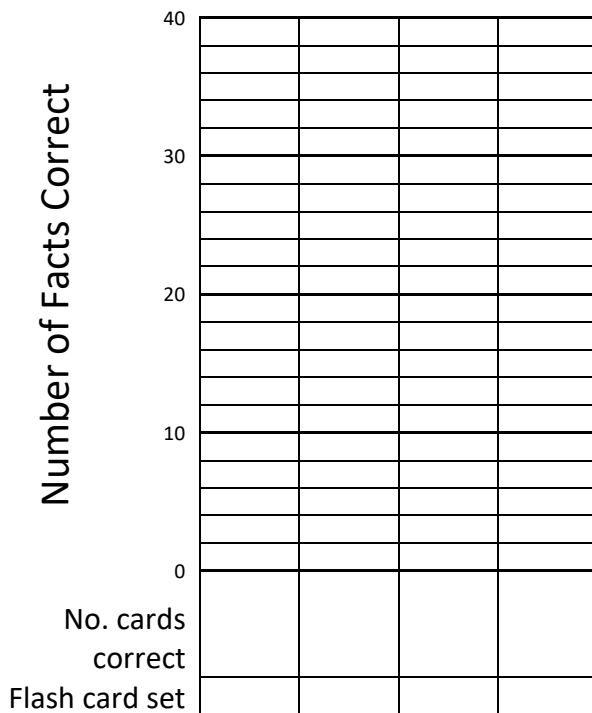
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today our focus is on subtracting 5, 9 and 11. In this lesson our focus is subtracting 11. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Discount, debit, remove.

Lesson 19 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 19 Speed Questions (+ & - 11)

Answer as many as you can in 2 minutes.

$13 - 11 = \underline{\quad}$	$11 - 11 = \underline{\quad}$	$20 - 11 = \underline{\quad}$	$16 - 11 = \underline{\quad}$
$15 - 11 = \underline{\quad}$	$12 + 11 = \underline{\quad}$	$\underline{\quad} - 2 = 9$	$11 - 7 = \underline{\quad}$
$1 + 11 = \underline{\quad}$	$19 - 11 = \underline{\quad}$	$14 - 11 = \underline{\quad}$	$7 + 11 = \underline{\quad}$
$11 - \underline{\quad} = 5$	$11 - \underline{\quad} = 10$	$11 - \underline{\quad} = 5$	$21 - 11 = \underline{\quad}$
$12 - 11 = \underline{\quad}$	$11 - \underline{\quad} = 5$	$11 - \underline{\quad} = 10$	$11 - \underline{\quad} = 11$
$23 - 11 = \underline{\quad}$	$11 - 10 = \underline{\quad}$	$3 + 11 = \underline{\quad}$	$11 - 4 = \underline{\quad}$
$11 + 11 = \underline{\quad}$	$18 - 11 = \underline{\quad}$	$\underline{\quad} - 3 = 8$	$\underline{\quad} - 11 = 6$
$\underline{\quad} - 8 = 3$	$\underline{\quad} - 5 = 6$	$22 - 11 = \underline{\quad}$	$11 + 2 = \underline{\quad}$
$11 - \underline{\quad} = 1$	$3 + 11 = \underline{\quad}$	$11 + 1 = \underline{\quad}$	$11 - \underline{\quad} = 2$
$[\underline{\quad} - 11 = 0$	$\underline{\quad} - 7 = 4$	$17 - 11 = \underline{\quad}$	$\underline{\quad} - 3 = 8$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 19 Work Sheet

1. Round to the nearest ten.

a. 42 _____

d. 271 _____

b. 9 _____

e. 855 _____

c. 567 _____

f. 1256 _____

Number of Correct Answers: _____

2. Fill in the squares. Subtract across and down.

15	11	
10	2	

19	9	
11	6	

22	8	
11	4	

Number of Correct Answers: _____

3. Use the digits 0 to 9 to fill the cells in the grid. The columns must add up to the given sums at the bottom. You must use all the digits 0 to 9 in each row, but digits may be repeated in columns. The digits in connecting unshaded cells (also diagonally) must be different.

a)

	3	6				2	4		1
8			3	6			1	2	
17	8	15	11	13	4	9	5	7	1

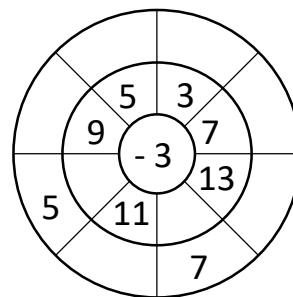
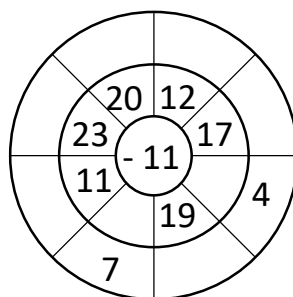
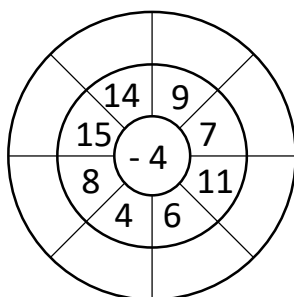
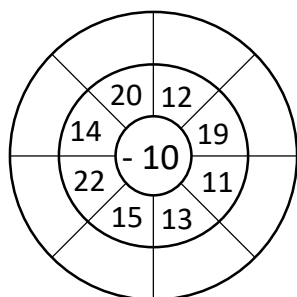
b)

1		5	3		8		4		0
2		9		0			1		
3	14	14	10	9	14	12	5	5	4

Number of Correct Answers: _____

Lesson 19: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 19 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

19 12 8 10 14 11 9 2 7 0 6 4 3 1 5

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 20

Addition and Subtraction Facts + 9 and – 9

Fill in the blanks below

$0 + 9 = 9$	$9 + 0 = 9$	$9 - 9 = 0$	$9 - 0 = 9$
$1 + 9 = 10$	$9 + 1 = 10$	$10 - 9 = 1$	$10 - 1 = 9$
$2 + 9 = 11$	$9 + 2 = 11$	$11 - 9 = 2$	$11 - 2 = 9$
$3 + 9 = 12$	$9 + 3 = 12$		$12 - 3 = 9$
$4 + 9 = 13$	$9 + 4 = 13$		$13 - 4 = 9$
$5 + 9 = 14$	$9 + 5 = 14$	$14 - 9 = 5$	
	$9 + 6 = 15$	$15 - 9 = 6$	$15 - 6 = 9$
$7 + 9 = 16$		$16 - 9 = 7$	$16 - 7 = 9$
$8 + 9 = 17$	$9 + 8 = 17$		$17 - 8 = 9$
$9 + 9 = 18$	$9 + 9 = 18$	$18 - 9 = 9$	
$10 + 9 = 19$	$9 + 10 = 19$	$19 - 9 = 10$	$19 - 10 = 9$
$11 + 9 = 20$	$9 + 11 = 20$	$20 - 9 = 11$	$20 - 11 = 9$
$12 + 9 = 21$	$9 + 12 = 21$	$21 - 9 = 12$	

Lesson 20 Intention & Language

Lesson Intention

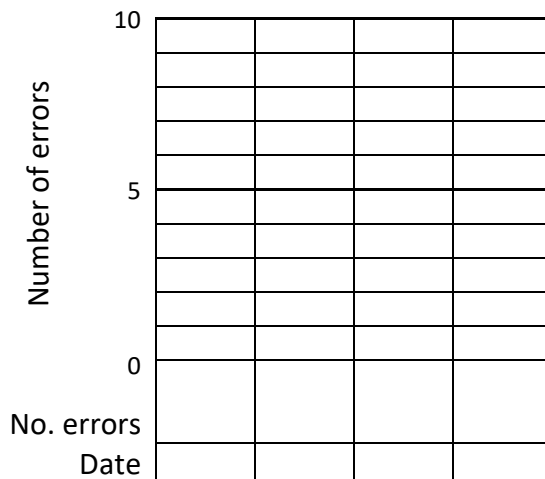
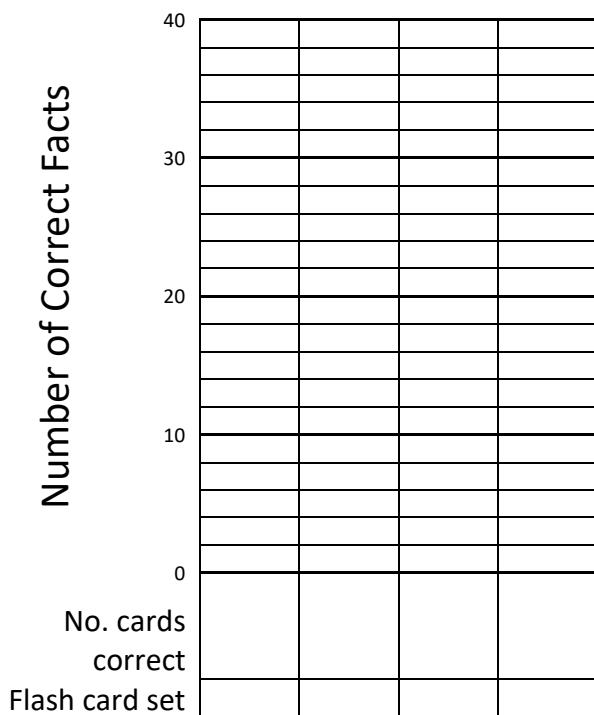
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 5, 9 and 11. In our earlier lesson, we looked at subtracting 11. In this lesson, our focus is subtracting 9. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Take off, take from, take out.

Lesson 20 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 20 Speed Questions (+ & - 9)

Answer as many as you can in 2 minutes.

11 - 9 = ____	9 - 5 = ____	15 - 9 = ____	14 - 9 = ____
20 - 9 = ____	9 - 6 = ____	17 - 9 = ____	16 - 9 = ____
10 - 9 = ____	9 - 9 = ____	5 + 9 = ____	____ - 9 = 12
____ - 6 = 3	9 + 5 = ____	11 - ____ = 2	8 + 9 = ____
____ - 5 = 4	____ - 4 = 5	9 - ____ = 2	____ - 9 = 4
11 - ____ = 2	____ - 9 = 2	____ - 5 = 4	9 - ____ = 0
1 + 9 = ____	9 + 0 = ____	9 - 2 = ____	9 + 5 = ____
9 - ____ = 7	14 - 9 = ____	____ - 9 = 3	9 - ____ = 2
21 - 9 = ____	9 - ____ = 8	9 - 7 = ____	19 - 9 = ____
9 + 10 = ____	9 - ____ = 4	3 + 9 = ____	18 - 9 = ____

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 20 Work Sheet

1. If the '2' became a '6'; how much bigger would the new number be?

a) 452 _____

d) 3245 _____

b) 286 _____

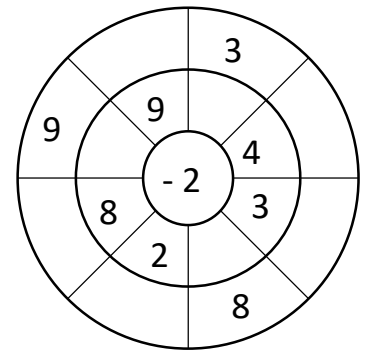
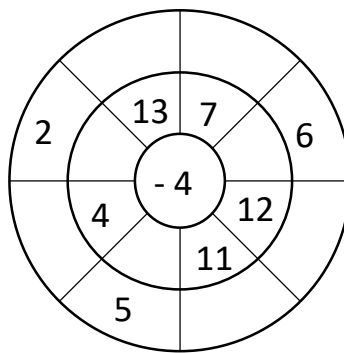
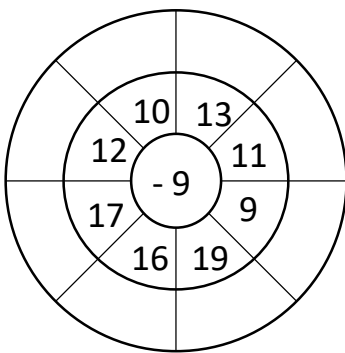
e) 1423 _____

c) 5025 _____

f) 2635 _____

Number of Correct Answers: _____

2. Subtract the number in the inside circle from the number in the middle circle and write your answer in the space.



Number of Correct Answers: _____

3. Apply the rule to the input number to get the output number.

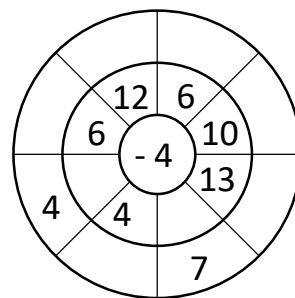
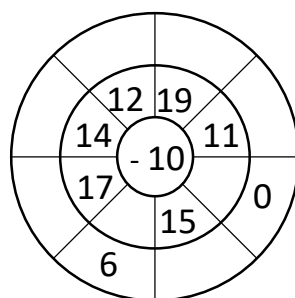
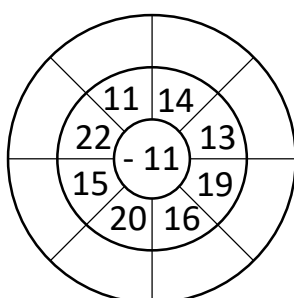
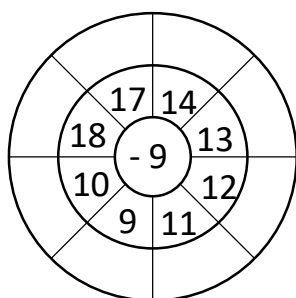
Input	Rule	Output
12	- 9	
14	- 9	
	- 9	0
18	- 9	
	- 9	3

Input	Rule	Output
15	- 10	
	- 0	7
6	- 3	
	- 3	4
	- 1	8

Number of Correct Answers: _____

Lesson 20: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 20 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

7 4 16 2 8 11 3 9 20 0 6 10 1 5 13

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 21

Addition and Subtraction Facts + 5 and – 5

Fill in the blanks below

$0 + 5 = 5$	$5 + 0 = 5$	$5 - 5 = 0$	$5 - 0 = 5$
$1 + 5 = 6$	$5 + 1 = 6$	$6 - 5 = 1$	$6 - 1 = 5$
$2 + 5 = 7$	$5 + 2 = 7$	$7 - 5 = 2$	$7 - 2 = 5$
$3 + 5 = 8$	$5 + 3 = 8$	$8 - 5 = 3$	$8 - 3 = 5$
$4 + 5 = 9$	$5 + 4 = 9$	$9 - 5 = 4$	
$5 + 5 = 10$	$5 + 5 = 10$	$10 - 5 = 5$	
$6 + 5 = 11$	$5 + 6 = 11$		$11 - 6 = 5$
	$5 + 7 = 12$	$12 - 5 = 7$	$12 - 7 = 5$
$8 + 5 = 13$		$13 - 5 = 8$	$13 - 8 = 5$
$9 + 5 = 14$	$5 + 9 = 14$		$14 - 9 = 5$
$10 + 5 = 15$	$5 + 10 = 15$		$15 - 10 = 5$
$11 + 5 = 16$	$5 + 11 = 16$	$16 - 5 = 11$	$16 - 11 = 5$
$12 + 5 = 17$	$5 + 12 = 17$	$17 - 5 = 12$	

Lesson 21 Intention & Language

Lesson Intention

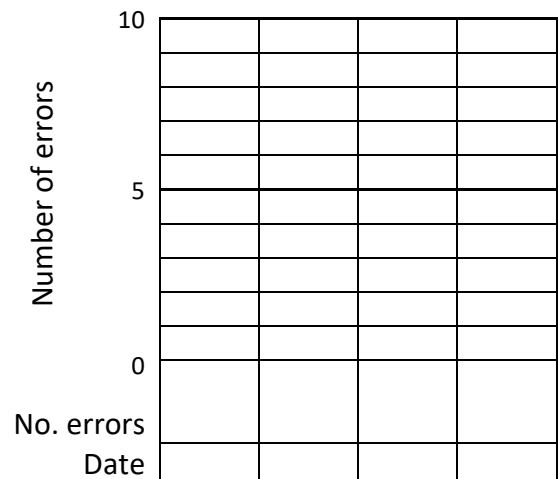
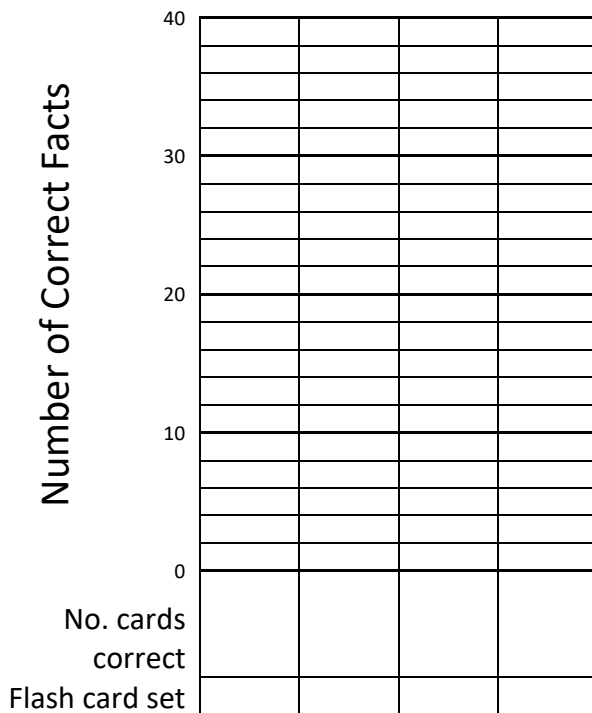
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 5, 9 and 11. In our earlier lessons, we looked at subtracting 9 and 11. In this lesson, our focus is subtracting 5. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Deduct, deducted, deduction.

Lesson 21 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 21 Speed Questions (+ & - 5)

Answer as many as you can in 2 minutes.

$6 - 5 = \underline{\quad}$	$5 - 5 = \underline{\quad}$	$9 - 5 = \underline{\quad}$	$16 - 5 = \underline{\quad}$
$5 + 5 = \underline{\quad}$	$12 - 5 = \underline{\quad}$	$5 - 0 = \underline{\quad}$	$5 + 7 = \underline{\quad}$
$15 - 5 = \underline{\quad}$	$\underline{\quad} - 5 = 3$	$12 - 5 = \underline{\quad}$	$10 - \underline{\quad} = 5$
$9 - 5 = \underline{\quad}$	$7 - \underline{\quad} = 2$	$5 - \underline{\quad} = 4$	$9 - 5 = \underline{\quad}$
$5 - \underline{\quad} = 2$	$8 + 5 = \underline{\quad}$	$5 + 10 = \underline{\quad}$	$17 - 5 = \underline{\quad}$
$5 - \underline{\quad} = 5$	$6 - \underline{\quad} = 1$	$\underline{\quad} - 5 = 6$	$4 + 5 = \underline{\quad}$
$6 + 5 = \underline{\quad}$	$5 + 7 = \underline{\quad}$	$7 - 5 = \underline{\quad}$	$\underline{\quad} - 5 = 0$
$\underline{\quad} - 5 = 6$	$7 - 5 = \underline{\quad}$	$9 - \underline{\quad} = 4$	$11 - 5 = \underline{\quad}$
$8 - 5 = \underline{\quad}$	$\underline{\quad} - 5 = 2$	$\underline{\quad} - 5 = 5$	$5 - \underline{\quad} = 3$
$\underline{\quad} - 3 = 2$	$11 - 5 = \underline{\quad}$	$6 + 5 = \underline{\quad}$	$\underline{\quad} - 5 = 3$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 21 Work Sheet

1. If the '7' became a '2'; how much smaller would the new number be?

a) 537 _____

d) 732 _____

b) 2178 _____

e) 5473 _____

c) 7129 _____

f) 8781 _____

Number of Correct Answers: _____

2. Use numbers 1 to 10 to fill the empty cells so that the sum of each horizontal block of cells equals the clue number on its left, and the sum of each vertical block is the number on top. Each number can only be used once per block.

17		14
15		5
16		

15		9
11		
13		5

13		10
12	5	
11		

Number of Correct Answers: _____

3. Place the numbers 1 to 9 in the 3 by 3 grid so that each horizontal and vertical line adds up to the given sum. You can only use each number once. Some numbers are already placed for you.

3	6		10
	7		14
		9	21
12	21	12	

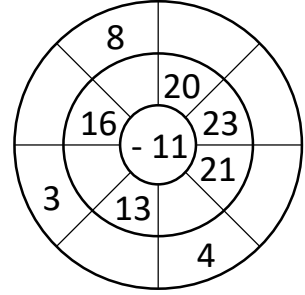
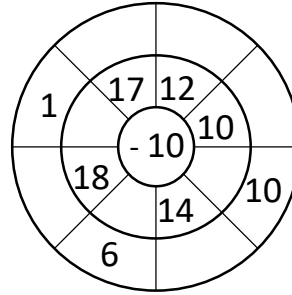
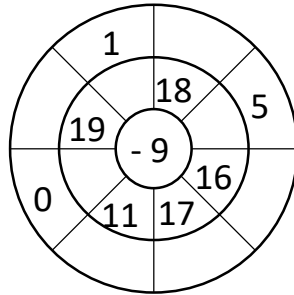
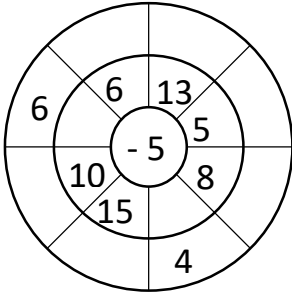
5			20
	4		15
2		7	10
15	11	19	

7			12
		9	22
6		3	11
21	8	16	

Number of Correct Answers: _____

Lesson 21: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 21 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of subtracting 5, 9 and 11 after today's lessons?
Circle one below:



I am not sure/confused
about this topic



I have some idea but
questions about this
topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 22

Addition and Subtraction Facts + 6 and – 6

Fill in the blanks below

$0 + 6 = 6$	$6 + 0 = 6$	$6 - 6 = 0$	$6 - 0 = 6$
$1 + 6 = 7$	$6 + 1 = 7$	$7 - 6 = 1$	$7 - 1 = 6$
$2 + 6 = 8$	$6 + 2 = 8$	$8 - 6 = 2$	$8 - 2 = 6$
$3 + 6 = 9$	$6 + 3 = 9$		$9 - 3 = 6$
$4 + 6 = 10$		$10 - 6 = 4$	$10 - 4 = 6$
$5 + 6 = 11$	$6 + 5 = 11$	$11 - 6 = 5$	
$6 + 6 = 12$	$6 + 6 = 12$	$12 - 6 = 6$	$12 - 6 = 6$
$7 + 6 = 13$	$6 + 7 = 13$	$13 - 6 = 7$	
$8 + 6 = 14$	$6 + 8 = 14$		$14 - 8 = 6$
$9 + 6 = 15$	$6 + 9 = 15$	$15 - 6 = 9$	
	$6 + 10 = 16$	$16 - 6 = 10$	$16 - 10 = 6$
$11 + 6 = 17$	$6 + 11 = 17$		$17 - 11 = 6$
$12 + 6 = 18$	$6 + 12 = 18$	$18 - 6 = 12$	$18 - 12 = 6$

Lesson 22 Intention & Language

Lesson Intention

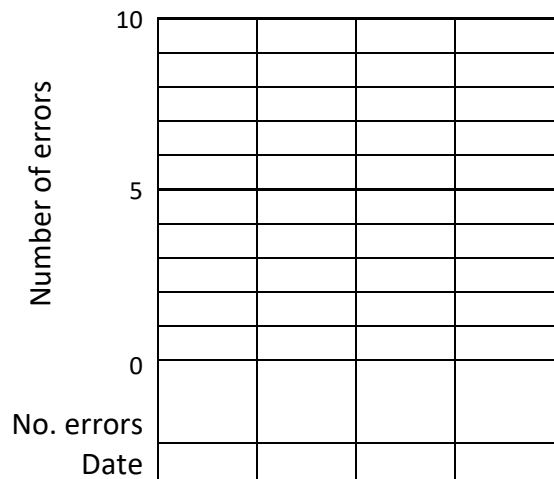
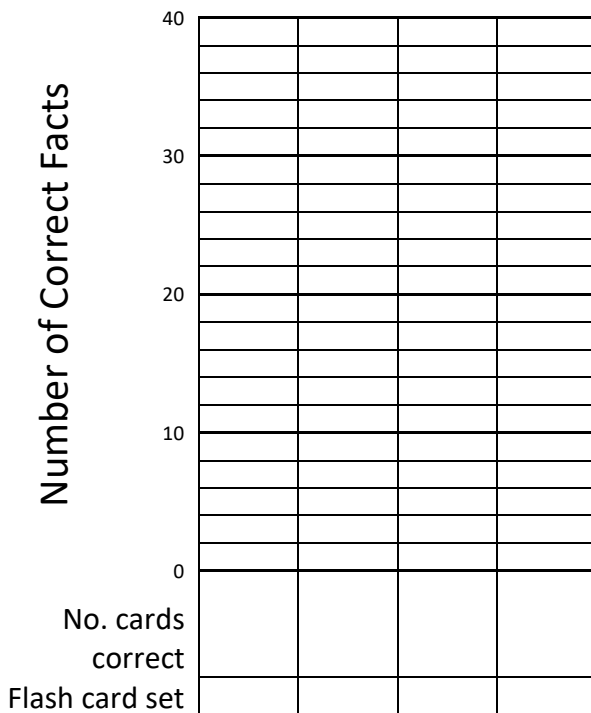
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 6, 7 and 8. In this lesson, our focus is subtracting 6. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Withhold, withdraw, withdrew.

Lesson 22 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 22 Speed Questions (+ & - 6)

Answer as many as you can in 2 minutes.

Answer as many as you can in 2 minutes.

$6 - 4 = \underline{\quad}$	$16 - 6 = \underline{\quad}$	$6 - 2 = \underline{\quad}$	$6 - 3 = \underline{\quad}$
$12 - 6 = \underline{\quad}$	$9 - 6 = \underline{\quad}$	$7 - \underline{\quad} = 1$	$11 - 6 = \underline{\quad}$
$10 - 6 = \underline{\quad}$	$6 - 6 = \underline{\quad}$	$6 - \underline{\quad} = 5$	$6 + 11 = \underline{\quad}$
$14 - 6 = \underline{\quad}$	$\underline{\quad} - 6 = 3$	$8 + 6 = \underline{\quad}$	$\underline{\quad} - 1 = 5$
$6 + 4 = \underline{\quad}$	$10 + 6 = \underline{\quad}$	$10 - 6 = \underline{\quad}$	$12 - \underline{\quad} = 6$
$7 + 6 = \underline{\quad}$	$10 - \underline{\quad} = 4$	$\underline{\quad} - 6 = 1$	$9 + 6 = \underline{\quad}$
$10 - \underline{\quad} = 4$	$\underline{\quad} - 5 = 1$	$\underline{\quad} - 6 = 5$	$6 - \underline{\quad} = 1$
$\underline{\quad} - 0 = 6$	$8 - \underline{\quad} = 2$	$13 - 6 = \underline{\quad}$	$15 - 6 = \underline{\quad}$
$6 - \underline{\quad} = 3$	$6 + 6 = \underline{\quad}$	$18 - 6 = \underline{\quad}$	$17 - 6 = \underline{\quad}$
$\underline{\quad} - 3 = 3$	$6 - 5 = \underline{\quad}$	$11 + 6 = \underline{\quad}$	$6 - 5 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 22 Work Sheet

1. If the '7' became a '1'; how much smaller would the new number be?

a) 752 _____

d) 7245 _____

b) 287 _____

e) 1473 _____

c) 5725 _____

f) 2735 _____

Number of Correct Answers: _____

2. Fill in the squares. Subtract across and down.

15	13	
9	5	

16	4	
5	2	

11	6	
9	2	

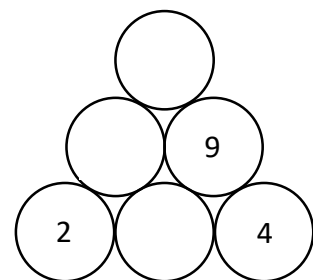
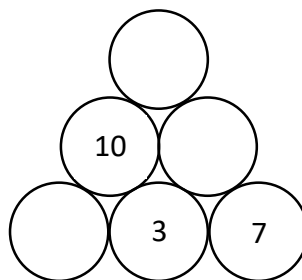
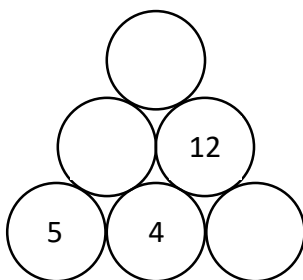
10	8	
6	3	

14	12	
3	3	

17	10	
9	5	

Number of Correct Answers: _____

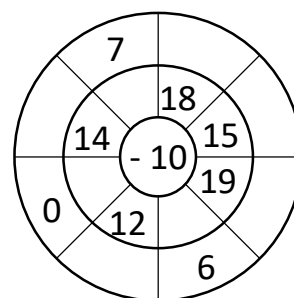
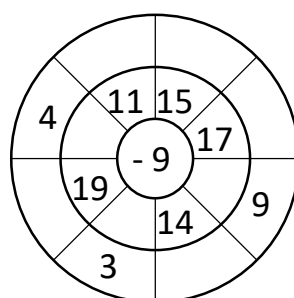
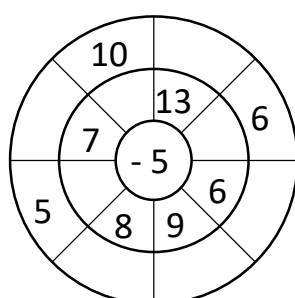
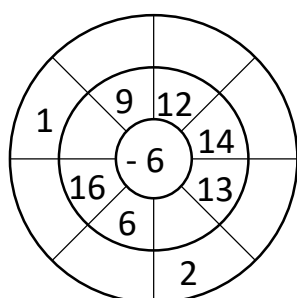
3. Fill in the empty circles with the sum of the 2 numbers next to each other in a row in the circle above the 2 numbers.



Number of Correct Answers: _____

Lesson 22: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 22 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

9 1 20 7 2 6 12 5 18 0 4 15 8 10 3

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 23

Addition and Subtraction Facts + 7 and – 7

Fill in the blanks below

$0 + 7 = 7$	$7 + 0 = 7$	$7 - 7 = 0$	$7 - 0 = 7$
$1 + 7 = 8$	$7 + 1 = 8$	$8 - 7 = 1$	$8 - 1 = 7$
$2 + 7 = 9$	$7 + 2 = 9$	$9 - 7 = 2$	$9 - 2 = 7$
$3 + 7 = 10$	$7 + 3 = 10$	$10 - 7 = 3$	
$4 + 7 = 11$	$7 + 4 = 11$		$11 - 4 = 7$
$5 + 7 = 12$	$7 + 5 = 12$		$12 - 5 = 7$
$6 + 7 = 13$		$13 - 7 = 6$	$13 - 6 = 7$
$7 + 7 = 14$	$7 + 7 = 14$	$14 - 7 = 7$	
$8 + 7 = 15$	$7 + 8 = 15$		$15 - 8 = 7$
$9 + 7 = 16$	$7 + 9 = 16$	$16 - 7 = 9$	
	$7 + 10 = 17$	$17 - 7 = 10$	$17 - 10 = 7$
$11 + 7 = 18$	$7 + 11 = 18$	$18 - 7 = 11$	$18 - 11 = 7$
$12 + 7 = 19$	$7 + 12 = 19$	$19 - 7 = 12$	$19 - 12 = 7$

Lesson 23 Intention & Language

Lesson Intention

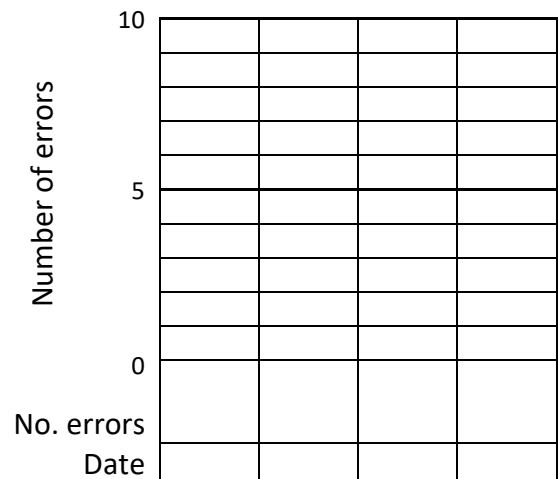
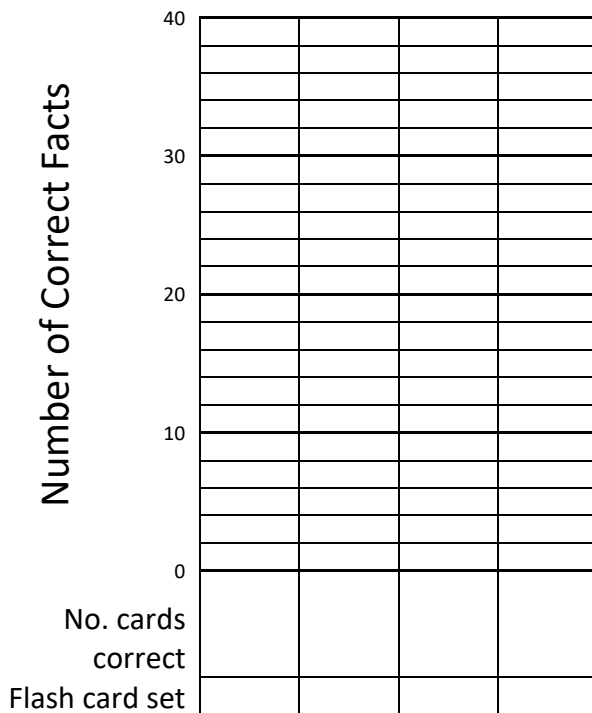
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 6, 7 and 8. In our earlier lesson, we looked at subtracting 6. In this lesson, our focus is subtracting 7. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

How much less, change, vary.

Lesson 23 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 23 Speed Questions (+ & - 7)

Answer as many as you can in 2 minutes.

$7 - 7 = \underline{\quad}$	$8 - 7 = \underline{\quad}$	$19 - 7 = \underline{\quad}$	$11 - 7 = \underline{\quad}$
$14 - 7 = \underline{\quad}$	$7 + 5 = \underline{\quad}$	$10 - 7 = \underline{\quad}$	$13 - 7 = \underline{\quad}$
$7 - 1 = \underline{\quad}$	$7 - \underline{\quad} = 4$	$7 - \underline{\quad} = 0$	$\underline{\quad} - 7 = 5$
$9 - \underline{\quad} = 2$	$7 - 0 = \underline{\quad}$	$7 - 5 = \underline{\quad}$	$15 - 7 = \underline{\quad}$
$7 + 3 = \underline{\quad}$	$7 - \underline{\quad} = 6$	$\underline{\quad} - 3 = 4$	$7 - \underline{\quad} = 3$
$7 + 7 = \underline{\quad}$	$9 - 7 = \underline{\quad}$	$\underline{\quad} - 7 = 7$	$7 - \underline{\quad} = 6$
$\underline{\quad} - 2 = 5$	$\underline{\quad} - 7 = 1$	$9 - 7 = \underline{\quad}$	$6 + 7 = \underline{\quad}$
$11 - 7 = \underline{\quad}$	$8 + 7 = \underline{\quad}$	$8 - \underline{\quad} = 1$	$20 - 7 = \underline{\quad}$
$\underline{\quad} - 7 = 5$	$\underline{\quad} - 7 = 10$	$9 + 7 = \underline{\quad}$	$\underline{\quad} - 7 = 3$
$7 - \underline{\quad} = 1$	$18 - 7 = \underline{\quad}$	$7 + 1 = \underline{\quad}$	$8 + 7 = \underline{\quad}$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 23 Work Sheet

1. Round to the nearest ten.

a) 27 _____

d) 2407 _____

b) 24 _____

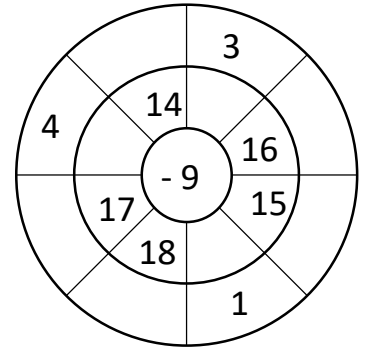
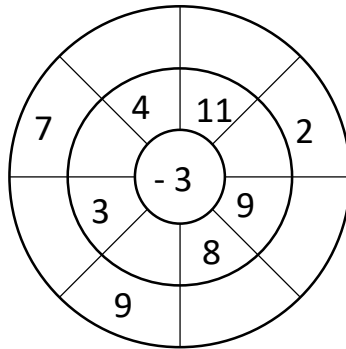
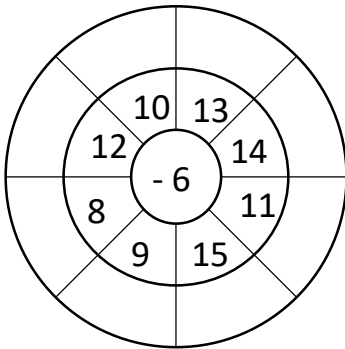
e) 859 _____

c) 132 _____

f) 2735 _____

Number of Correct Answers: _____

2. Subtract the number in the inside circle from the number in the middle circle and write your answer in the space.



Number of Correct Answers: _____

3. Apply the rule to the input number to get the output number.

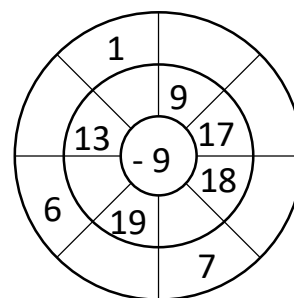
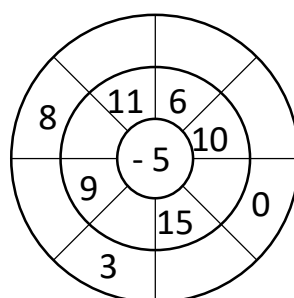
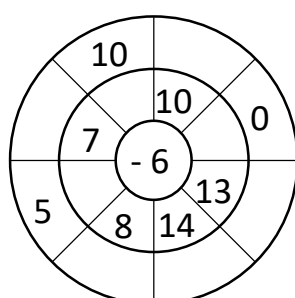
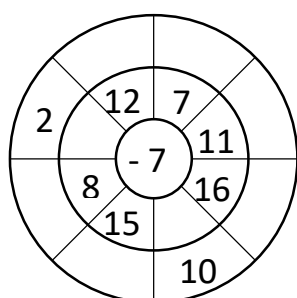
Input	Rule	Output
12	- 7	
14	- 7	
	- 7	0
9	- 7	
	- 7	3

Input	Rule	Output
15	- 6	
	- 5	5
6	- 5	
	- 4	4
	- 4	8

Number of Correct Answers: _____

Lesson 23: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 23 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

8 0 11 4 9 5 1 10 23 6 20 2 3 17 7

Cross off the numbers in the grid if they answer a given question. Call out "Bingo" if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 24

Addition and Subtraction Facts + 8 and – 8

Fill in the blanks below

$0 + 8 = 8$	$8 + 0 = 8$	$8 - 8 = 0$	$8 - 0 = 8$
$1 + 8 = 9$	$8 + 1 = 9$	$9 - 8 = 1$	$9 - 1 = 8$
$2 + 8 = 10$	$8 + 2 = 10$	$10 - 8 = 2$	$10 - 2 = 8$
$3 + 8 = 11$		$11 - 8 = 3$	$11 - 3 = 8$
	$8 + 4 = 12$	$12 - 8 = 4$	$12 - 4 = 8$
$5 + 8 = 13$	$8 + 5 = 13$		$13 - 5 = 8$
$6 + 8 = 14$	$8 + 6 = 14$		$14 - 6 = 8$
$7 + 8 = 15$	$8 + 7 = 15$	$15 - 8 = 7$	
$8 + 8 = 16$	$8 + 8 = 16$	$16 - 8 = 8$	
$9 + 8 = 17$	$8 + 9 = 17$		$17 - 9 = 8$
$10 + 8 = 18$	$8 + 10 = 18$	$18 - 8 = 10$	$18 - 10 = 8$
$11 + 8 = 19$	$8 + 11 = 19$	$19 - 8 = 11$	$19 - 11 = 8$
$12 + 8 = 20$	$8 + 12 = 20$	$20 - 8 = 12$	

Lesson 24 Intention & Language

Lesson Intention

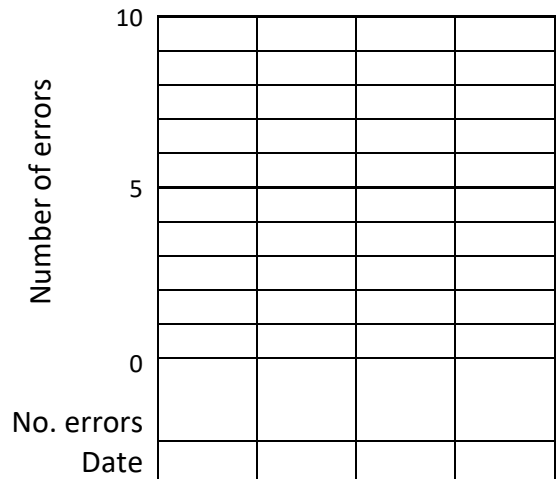
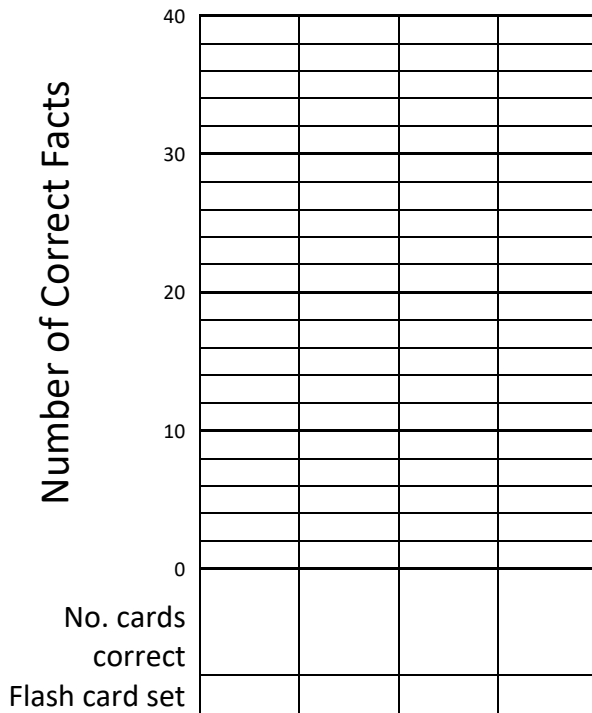
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting 6, 7 and 8. In our earlier lessons, we looked at subtracting 6 and 7. In this lesson, our focus is subtracting 8. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Estimate, find, value.

Lesson 24 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 24 Speed Questions (+ & - 8)

Answer as many as you can in 2 minutes.

9 - 8 = ____	19 - 8 = ____	12 - 8 = ____	20 - 8 = ____
18 - 8 = ____	8 + 9 = ____	6 + 8 = ____	8 - ____ = 0
8 - ____ = 4	9 - 8 = ____	9 + 8 = ____	11 - 8 = ____
8 - 7 = ____	8 - ____ = 6	____ - 8 = 1	8 - 5 = ____
8 + 6 = ____	8 + 1 = ____	____ - 2 = 6	5 + 8 = ____
11 - 8 = ____	9 - 8 = ____	8 - 7 = ____	8 + 8 = ____
____ - 2 = 6	____ - 8 = 2	16 - 8 = ____	____ - 8 = 2
8 + 3 = ____	12 - ____ = 4	8 - 8 = ____	9 - ____ = 1
____ - 3 = 5	____ - 6 = 2	10 - ____ = 2	8 - 3 = ____
8 - ____ = 2	8 - 3 = ____	8 - ____ = 4	____ - 8 = 4

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 24 Work Sheet

1. Round to the nearest ten.

a) 53 _____

d) 7453 _____

b) 86 _____

e) 748 _____

c) 541 _____

f) 1935 _____

Number of Correct Answers: _____

2. Use numbers 1 to 10 to fill the empty cells so that the sum of each horizontal block of cells equals the clue number on its left, and the sum of each vertical block is the number on top. Each number can only be used once per block.

12		14
11		
15		8

15		9
11	8	
13		

9		17
15		8
11		

Number of Correct Answers: _____

3. Place the numbers 1 to 9 in the 3 by 3 grid so that each horizontal and vertical line adds up to the given sum. You can only use each number once. Some numbers are already placed for you.

3	2		10
	1		18
		6	17
15	10	20	

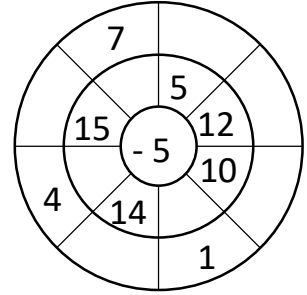
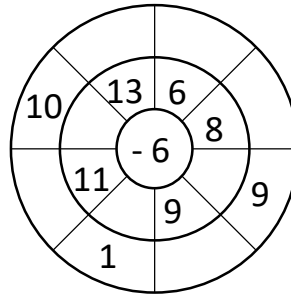
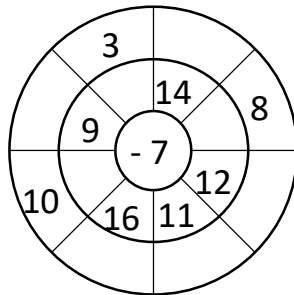
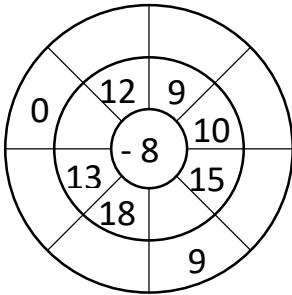
		8	16
	5		11
6		3	18
15	15	15	

7			21
	8		17
4	1	2	7
17	18	10	

Number of Correct Answers: _____

Lesson 24: Four Minute Subtraction Frenzy

Subtract the number in the inside circle from the number in the middle circle and write your answer in the space. How many can you correctly complete in 4 minutes?



Number of Correct Answers: _____

Lesson 24 Reflection & Metacognition

Answer the questions below.

What did you learn today?

What were your improvements today?

How confident do you feel about today's focus topic of subtracting 6, 7 and 8 after today's lessons?
Circle one below:



I am not sure/confused
about this topic



I have some idea but
questions about this
topic



I think I can do this
topic



I am sure I can do
this topic

Lesson 25

Addition and Subtraction Facts + 12 and – 12

Fill in the blanks below

$0 + 12 = 12$	$12 + 0 = 12$	$12 - 12 = 0$	$12 - 0 = 12$
$1 + 12 = 13$	$12 + 1 = 13$	$13 - 12 = 1$	$13 - 1 = 12$
$2 + 12 = 14$	$12 + 2 = 14$	$14 - 12 = 2$	$14 - 2 = 12$
	$12 + 3 = 15$	$15 - 12 = 3$	$15 - 3 = 12$
$4 + 12 = 16$	$12 + 4 = 16$		$16 - 4 = 12$
$5 + 12 = 17$	$12 + 5 = 17$	$17 - 12 = 5$	
$6 + 12 = 18$	$12 + 6 = 18$	$18 - 12 = 6$	
$7 + 12 = 19$	$12 + 7 = 19$	$19 - 12 = 7$	$19 - 7 = 12$
$8 + 12 = 20$	$12 + 8 = 20$	$20 - 12 = 8$	
$9 + 12 = 21$	$12 + 9 = 21$		$21 - 9 = 12$
$10 + 12 = 22$	$12 + 10 = 22$		$22 - 10 = 12$
$11 + 12 = 23$		$23 - 12 = 11$	$23 - 11 = 12$
$12 + 12 = 24$	$12 + 12 = 24$	$24 - 12 = 12$	$24 - 12 = 12$

Lesson 25 Intention & Language

Lesson Intention

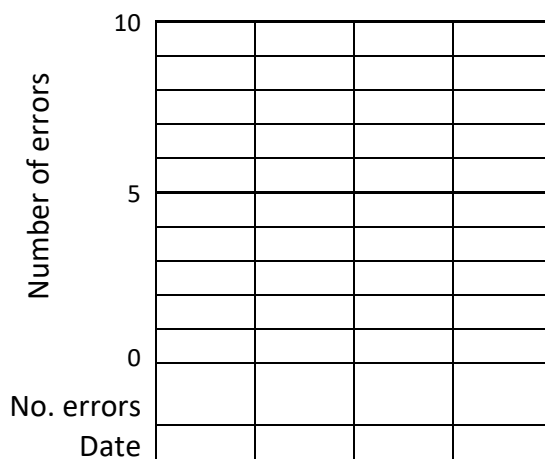
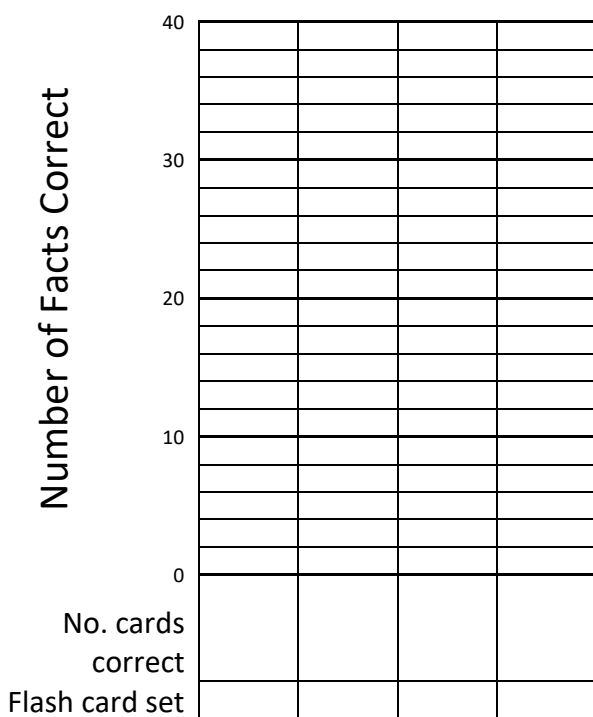
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today our focus is on subtracting numbers from 0 to 12 and applying the number facts. In this lesson our focus is subtracting 12. While you may know this number fact, can you give answers that are fast and correct?

Lesson Language

Determine, evaluate, assess.

Lesson 25 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 25 Speed Questions (+ & - 12)

Answer as many as you can in 2 minutes.

Answer as many as you can in 2 minutes.

$15 - 12 = \underline{\quad}$	$24 - 12 = \underline{\quad}$	$12 - 9 = \underline{\quad}$	$23 - 12 = \underline{\quad}$
$13 - 12 = \underline{\quad}$	$6 + 12 = \underline{\quad}$	$12 - 12 = \underline{\quad}$	$12 + 2 = \underline{\quad}$
$10 + 12 = \underline{\quad}$	$\underline{\quad} - 7 = 5$	$12 - \underline{\quad} = 3$	$12 - \underline{\quad} = 7$
$18 - 12 = \underline{\quad}$	$12 - \underline{\quad} = 9$	$22 - 12 = \underline{\quad}$	$\underline{\quad} - 1 = 12$
$12 - \underline{\quad} = 7$	$\underline{\quad} - 0 = 12$	$4 + 12 = \underline{\quad}$	$19 - 12 = \underline{\quad}$
$\underline{\quad} - 10 = 2$	$14 - 12 = \underline{\quad}$	$12 - \underline{\quad} = 8$	$23 - 11 = \underline{\quad}$
$12 - \underline{\quad} = 1$	$12 - \underline{\quad} = 6$	$\underline{\quad} - 9 = 12$	$20 - 12 = \underline{\quad}$
$16 - 12 = \underline{\quad}$	$12 - 2 = \underline{\quad}$	$7 + 12 = \underline{\quad}$	$\underline{\quad} - 2 = 10$
$5 + 12 = \underline{\quad}$	$8 + 12 = \underline{\quad}$	$\underline{\quad} - 2 = 10$	$12 + 12 = \underline{\quad}$
$\underline{\quad} - 4 = 8$	$17 - 12 = \underline{\quad}$	$21 - 12 = \underline{\quad}$	$12 - \underline{\quad} = 0$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 25 Work Sheet

1. Round to the nearest ten.

a) 14 _____

d) 185 _____

b) 5120 _____

e) 2238 _____

c) 23683 _____

f) 34 _____

Number of Correct Answers: _____

2. Fill in the squares. Subtract across and down.

↓	→	
↓		
22	11	
12	8	

↓	→	
↓		
19	12	
9	6	

↓	→	
↓		
19	12	
5	4	

Number of Correct Answers: _____

3. Use the digits 0 to 9 to fill the cells in the grid. The columns must add up to the given sums at the bottom. You must use all the digits 0 to 9 in each row, but digits may be repeated in columns. The digits in connecting unshaded cells (also diagonally) must be different.

a)

2			5		7	4	1	0	
8	0							6	2
10	3	13	9	17	8	9	4	6	11

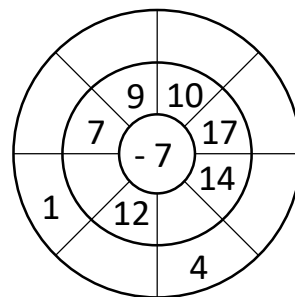
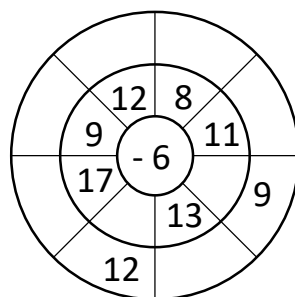
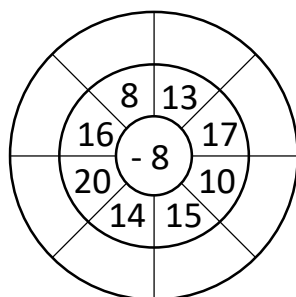
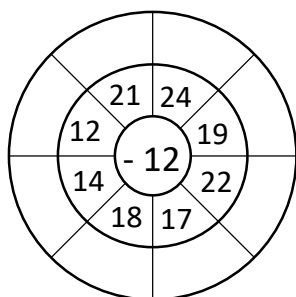
b)

6	8		9						
0	5		3		9	7	2		8
6	13	8	12	11	13	10	3	4	10

Number of Correct Answers: _____

Lesson 25: Four Minute Subtraction Frenzy

Students subtract the number in the inside circle from the number in the middle circle and write their answer in the empty space for 4 minutes. Answers provided in bold below.



Number of Correct Answers: _____

Lesson 25 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

18 12 3 11 15 4 6 8 5 9 7 3 10 0 1

Cross off the numbers in the grid if they answer a given question. Call out “Bingo” if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 26

Addition and Subtraction Facts + and – 0 to 12

Fill in the blanks below

$0 + 4 = 4$	$4 + 0 = 4$	$4 - 0 = 4$
$1 + 5 = 6$	$5 + 1 = 6$	$6 - 5 = 1$
$2 + 2 = 4$		$4 - 2 = 2$
$3 + 9 = 12$	$9 + 3 = 12$	$12 - 3 = 9$
$4 + 12 = 16$	$12 + 4 = 16$	$16 - 4 = 12$
	$3 + 5 = 8$	$8 - 3 = 5$
$6 + 1 = 7$		$7 - 6 = 1$
$7 + 6 = 13$	$6 + 7 = 13$	$13 - 7 = 6$
$8 + 10 = 18$	$10 + 8 = 18$	$18 - 10 = 8$
	$0 + 9 = 9$	$9 - 0 = 9$
$10 + 7 = 17$		$17 - 10 = 7$
$11 + 11 = 22$		$22 - 11 = 11$
$12 + 8 = 20$	$8 + 12 = 20$	$20 - 8 = 12$

Lesson 26 Intention & Language

Lesson Intention

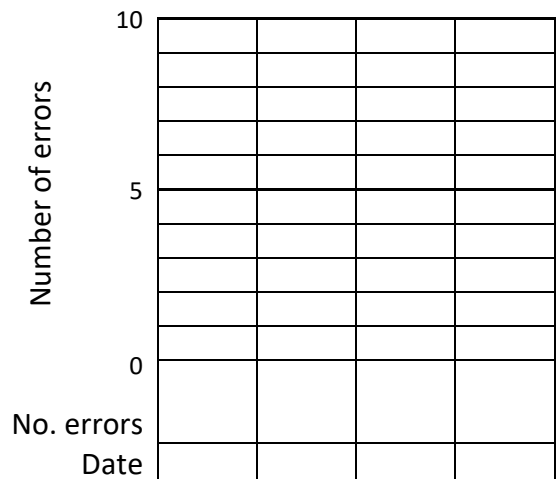
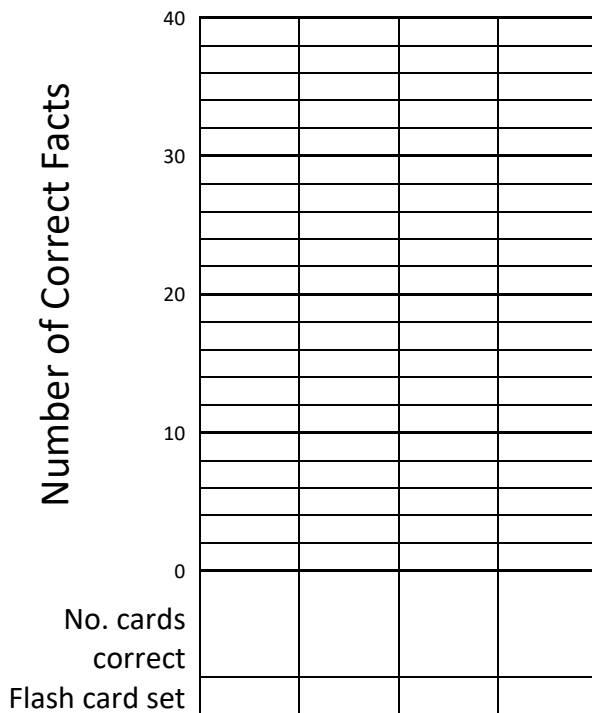
In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting numbers from 0 to 12 and applying the number facts. In this lesson, our focus is subtracting numbers from 0 to 12. While you may know these number facts, can you give answers that are fast and correct?

Lesson Language

Subtract, minus, take away, subtraction, difference, decrease.

Lesson 26 Flash Cards Graph

How many flash cards did you answer in a minute? Graph the number of flash cards you had correct and incorrect below.



Lesson 26 Speed Questions (All + & -)

Answer as many as you can in 2 minutes.

$7 - 3 = \underline{\quad}$	$11 - 8 = \underline{\quad}$	$2 - 1 = \underline{\quad}$	$18 - 9 = \underline{\quad}$
$7 - 0 = \underline{\quad}$	$9 - 5 = \underline{\quad}$	$11 - 4 = \underline{\quad}$	$7 - 6 = \underline{\quad}$
$11 - 0 = \underline{\quad}$	$7 - 3 = \underline{\quad}$	$5 + 10 = \underline{\quad}$	$8 + 10 = \underline{\quad}$
$5 - \underline{\quad} = 2$	$12 - \underline{\quad} = 10$	$11 + 0 = \underline{\quad}$	$6 - 2 = \underline{\quad}$
$10 - \underline{\quad} = 4$	$3 - \underline{\quad} = 1$	$\underline{\quad} - 0 = 3$	$3 - \underline{\quad} = 2$
$\underline{\quad} - 4 = 0$	$12 + 3 = \underline{\quad}$	$9 - \underline{\quad} = 7$	$12 + 6 = \underline{\quad}$
$\underline{\quad} - 6 = 6$	$0 + 10 = \underline{\quad}$	$8 - \underline{\quad} = 8$	$\underline{\quad} - 4 = 4$
$4 + 11 = \underline{\quad}$	$\underline{\quad} - 2 = 7$	$7 - 1 = \underline{\quad}$	$\underline{\quad} - 8 = 9$
$0 + 8 = \underline{\quad}$	$\underline{\quad} - 2 = 3$	$11 - 9 = \underline{\quad}$	$13 - 6 = \underline{\quad}$
$9 - 8 = \underline{\quad}$	$17 - 7 = \underline{\quad}$	$\underline{\quad} - 6 = 1$	$23 - \underline{\quad} = 11$

How did you do? Number of Correct Answers _____ Number of Errors _____

Lesson 26 Work Sheet

- 1.
- a) Start at 115 and subtract 10 five times b) Start at 358 and subtract 50 five times

115

358

- c) Start at 280 and subtract 40 five times d) Start at 235 and add 20 five times

280

235

Number of Correct Answers:

2. Fill in the squares. Subtract across and down.

20	18	
7	1	

15	11	
8	0	

14	10	
4	2	

17	13	
10	6	

19	16	
9	5	

20	12	
9	3	

Number of Correct Answers:

3. Apply the rule to the input number to get the output number.

Input	Rule	Output
12	- 9	
14	- 5	
	- 0	0
11	- 2	
	- 4	3

Input	Rule	Output
15	- 9	
	- 3	7
16	- 10	
	- 8	4
	- 7	8

Number of Correct Answers:

Lesson 26: Four Minute Subtraction Frenzy

Subtract the numbers on the row from the numbers in the column.
The first two are done for you. How many can you correctly complete in 4 minutes?

-	21	12	24	14	18	20	23	19	13	15	16	17	22
1	20	11											
10													
5													
11													
8													
3													
6													
0													
12													
9													
7													

Number of Correct Answers: _____

Lesson 26 Bingo

Choose 9 of the numbers below and write each in a square anywhere in your grid. Your grid should have all squares filled with 9 different numbers from the list below.

14 1 12 13 10 9 7 2 5 8 3 6 0 4 11

Cross off the numbers in the grid if they answer a given question. Call out “Bingo” if you have 3 answers crossed out in a row (down, across or diagonally in the grid).

Lesson 27

Lesson 27 Short Questions

1. $5 + 5 = \underline{\hspace{2cm}}$

2. $200 + 200 = \underline{\hspace{2cm}}$

3. $250 + 250 = \underline{\hspace{2cm}}$

4. $1000 - 600 = \underline{\hspace{2cm}}$

5. $150 + 150 = \underline{\hspace{2cm}}$

6. $500 + 500 = \underline{\hspace{2cm}}$

7. $400 + 400 = \underline{\hspace{2cm}}$

8. $150 + 300 = \underline{\hspace{2cm}}$

9. $500 + 300 = \underline{\hspace{2cm}}$

10. $900 - 800 = \underline{\hspace{2cm}}$

11. $150 + 600 = \underline{\hspace{2cm}}$

12. $450 - 400 = \underline{\hspace{2cm}}$

Lesson 27 Intention & Language

Lesson Intention

In these Intervention Mathematics lessons, we are looking at the number facts up to 12. Today, our focus is on subtracting numbers from 0 to 12 and applying the number facts. In our earlier lessons we looked at subtracting numbers from 0 to 12. In this lesson, our focus is on applying the number facts to solve worded questions. While you may know the number facts, can you apply these to real life situations and get the right answers?

Lesson Language

Kilogram, kg, per, gram, g, shop.

Lesson 27 Part A: Scenario



Fruit Shopping

You are going to the shop to buy fruit. The following are the prices of different fruits at the shop.

Mangoes	₱200/kg
Bananas	₱150/kg
Pineapples	₱250 each
Strawberries	₱200 per 250g pack
Fuji Apples	₱150/kg
Kiwifruit	₱150 for 3 pieces of fruit

Lesson 27 Part B: Questions

- a) If you buy 1 kg of bananas and 3 kg of mangoes, how much money do you have to pay?
- b) If there are about 5 bananas in a kilogram of bananas, how much would it cost to buy 10 bananas?
- c) How much will one kilogram of strawberries cost?

Lesson 27 Part C: Questions

- a) Which would cost more: 3 kg of apples or 2 kg of mangoes?
- b) If you have ₱900, would you have enough money to buy 6 kiwifruit and 2 pineapples?
- c) How much money would you have left from ₱1000 if you buy 3 kiwifruit, 1 pineapple and a 250g pack of strawberries?

Lesson 27 Reflection & Metacognition

Answer the survey questions given by the teacher.

For inquiries or feedback, please write or call:

Department of Education - Bureau of Learning Delivery (DepEd-BLD)
Contact Numbers: 8637-4366; 8637-4347; 8633-9347

Department of Education - Bureau of Learning Resources (DepEd-BLR)
Contact Numbers: 8634-1072; 8631-6922

Email Address: blr.od@deped.gov.ph

