7

DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 1
Week
2

DepED MATATAG
BAGONG PILIPINAS
DEPARTMENT OF EDUCATION NCR
ONE NCR STRONGER TOGETHER

Learning Activity Sheet Mathematics Grade 7
Quarter 1: Week 2

Published by the Department of Education
Secretary: Sara Z. Duterte
Undersecretary: Gina O. Gonong

Development Team

Writer: Evelyn C. Callada
Content Reviewer: Resty I. Rodelas, Alberto J. Tiangco, Marilyn B. Soriano, Evelyn C. Callada, Dominador J. Villafria
External Content Validator: Dr. Errol Matthew C. Garcia, Dr. Winston S. Sirug
External Language Validator: Rafael John Sotto
Illustrator:
Layout Artist: Vergel Junior C. Eusebio

Management Team

JOCELYN DR ANDAYA, *CESO IV,* Director IV
CRISTITO A. ECO, *CESO III*, Assistant Regional Director
MICAH G. PACHECO, OIC-Chief Education Program Supervisor, CLMD
DENNIS M. MENDOZA, Regional EPS/Learning Resource Management Section Head
RESTY I. RODELAS, Regional Mathematics Education Program Supervisor
DAISY L. MATAAC, SDO Taguig City & Pateros LRMS Education Program Supervisor
ELSA R. MATA, SDO Navotas LRMS Education Program Supervisor

Department of Education – National Capital Region (DepEd- NCR)

Office Address: 6 Misamis St, Bago Bantay, Quezon City
Metro Manila, Philippines, 1105
Telefax: (02) 85229412
Email Address: ncr@deped.gov.ph

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	2	**Day:**	**1**
Lesson Title/ Topic:	Drawing Regular Polygons with sides 5, 6, 8 or 10		
Name:		**Grade & Section:**	**7**

Activity #1

A. Draw polygons with 5, 6, 8, or 10 sides based on measurements of sides and angles, using a ruler and a protractor.

1. Draw a regular pentagon with each side measuring 4 cm.

2. Draw a regular hexagon with each side measuring 4 cm.

3. Draw a regular octagon with each side measuring 5 cm.

4. Draw a regular decagon with each side measuring 5 cm.

B. How do you draw regular polygons with 5, 6, 8, and 10 sides? _____
_____
_____
_____
_____

Activity #2

Group Activity:

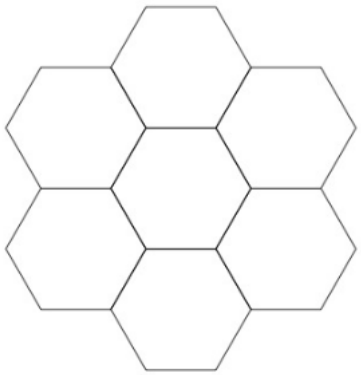
A. Using ruler and protractor. Draw the given figure on the right using the following conditions: (Use separate sheet of paper)

Group 1 – side measuring 10 cm

Group 2 – side measuring 12 cm

Group 3 – side measuring 15 cm

Group 4 – side measuring 8 cm



B. Draw polygons with 5, 6, 8, and 10 with sides measuring 3 cm with 2 polygons having a common side.

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	2	**Day:**	**2**
Lesson Title/ Topic:	Drawing irregular polygons.		
Name:		**Grade & Section:**	**7**

Activity #1

A. Draw irregular polygons given the following conditions:

1. An irregular octagon with 3 given angle measures 50°, 130°, 150°
2. An irregular decagon with 5 given measures = sides 2cm, 3cm, angles 110°, 80°, 30°

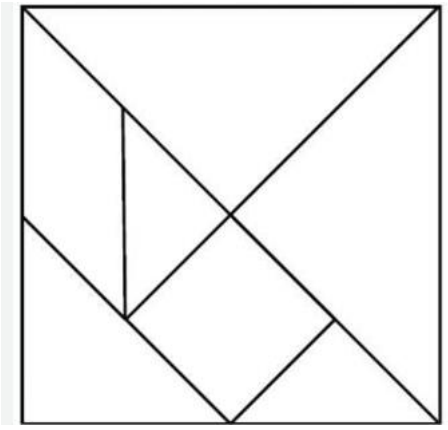
B. Draw irregular polygons given the following conditions:

1. Draw an irregular octagon using any 2-angle and 3-side measures given.

2. Draw an irregular decagon using any 2-angle and 3 side measures given.

Activity #2

*Using the **TANGRAM**, create polygons with 3, 5, 6, 7, 8, and 10 sides, one convex and one concave.*



LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	2	**Day:**	**3**
Lesson Title/ Topic:	Angle pairs - Complementary and Supplementary angles.		
Name:		**Grade & Section:**	**7**

Activity #1

WORD SEARCH

Search for the words that refer to the given meanings below:

1. It is formed by two rays or lines that share a common endpoint
2. The common endpoint where 2 rays meet.
3. It refers to the 2 rays that meet at a common endpoint
4. Two angles that share a common vertex and side.
5. Two angles whose sum is 90°
6. Two angles whose sum is 180°
7. a set of two things used together or regarded as a unit.

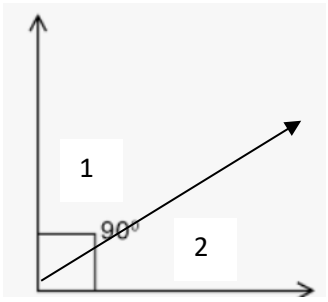
A	E	T	O	E	K	H	O	N	R	B	I	T	O	H
S	D	H	I	D	L	F	I	L	E	D	O	R	P	N
F	F	N	L	S	I	T	C	M	W	F	P	E	U	B
T	C	Y	U	X	U	Y	O	H	S	E	U	W	Y	V
Y	V	U	G	C	Y	R	M	U	D	S	I	E	R	C
H	B	I	F	A	A	E	P	T	A	T	K	P	F	Y
J	N	O	D	Q	N	S	L	R	W	Y	Y	A	G	U
K	U	P	R	F	G	E	E	R	E	I	T	I	K	O
E	S	U	P	P	L	E	M	E	N	T	A	R	Y	L
C	I	Y	U	U	E	M	E	B	Y	U	I	S	Q	S
X	D	D	A	S	W	E	N	T	Y	U	I	O	I	L
R	E	R	E	W	T	Y	T	S	S	E	W	T	P	J
Y	S	L	P	U	Y	R	A	D	J	A	C	E	N	T
I	S	O	A	S	V	E	R	T	E	X	D	S	E	A
S	O	T	Y	U	I	J	Y	G	M	E	E	F	F	D

Activity #2

A. Write C if the given pair of angles are complementary, S if supplementary, and N if neither of the two.

1. 67° and 33°
2. 28° and 52°
3. 125° and 55°
4. 97° and 103°
5. 56° and 124°
6. 21° and 159°
7. 105° and 95°
8. 21.5° and 158.5°
9. 55.75° and 34.25°
10. 110.55° and 69.35°

B. Given the following measures find the complement of the following angles:
Refer to the illustration on the right for # 1-5

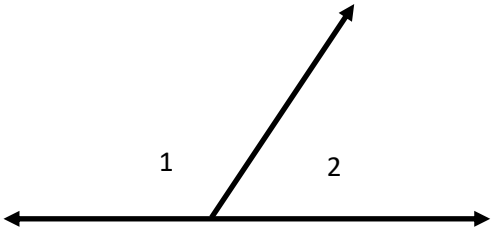


1. ∠1 = 68°
2. ∠1 = 58°
3. ∠2 = 23 °
4. ∠2 = 15 °
5. ∠1= 87 °

Determine the complement of the given angles.

6. 44 °
7. 23.45°
8. 56.79°
9. 23.32°
10. $12\frac{3}{4}$ °

C. Given the following measures find the supplement of the following angles:
Refer to the illustration on the right for # 1-5



1. ∠1= 134°
2. ∠1= 143°
3. ∠2 = 78°
4. ∠2 = 82°
5. ∠1 = 101°

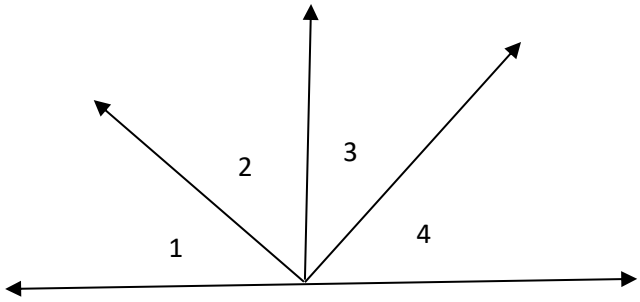
Determine the supplement of the given angles.

6. 65°
7. 89°
8. 145.67°
9. 102.56°
10. $34\frac{1}{3}$°

Activity #3

A. Given ∠1 and ∠2 are complementary, ∠3 and ∠4 are complementary, and ∠2 and ∠3 are complementary find the measure of the angles given the following conditions:

1. ∠1 = 27°, ∠2 =? ∠3 =? ∠4 =?
2. ∠ 2 = 41°, ∠1 =? ∠3 =? ∠4 =?
3. ∠3 = 33°, ∠4 =? ∠1 =? ∠2 =?
4. ∠ 4 = 57°, ∠3 =? ∠1 =? ∠2 =?
5. ∠1 = 28°, ∠2 =? ∠3 =? ∠4 =?
6. ∠2 = 46°, ∠1=? ∠3=? ∠4 =?



B. Give the measure of the angles:

1. Complimentary angles where one angle is thrice the other angle.
2. Complimentary angles where one angle is five times the other angle.
3. Supplementary angles where one angle is eight times the other angle.
4. Supplementary angles where one angle is five times the other angle.
5. Supplementary angles where one angle is thrice times the other angle.
6. Complementary angles where one angle is 10 more than thrice the other angle.
7. Complementary angles where one angle has the same measure as the other angle.
8. Supplementary angles where one angle has the same measure as the other angle.
9. Complimentary angles where one angle is ten more than the other angle.
10. Supplementary angles where one angle is 30 more than twice the other angle.

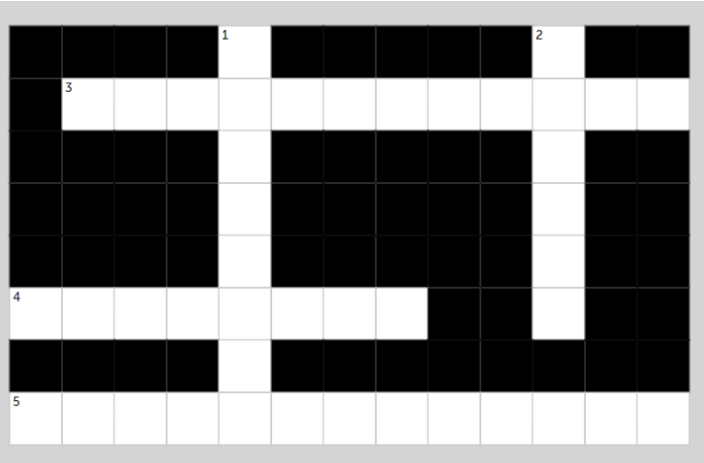
LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	2	**Day:**	**4**
Lesson Title/ Topic:	Angle Pairs - Linear Pairs and Vertical Angles		
Name:		**Grade & Section:**	**7**

Activity#1

CROSSWORD PUZZLE

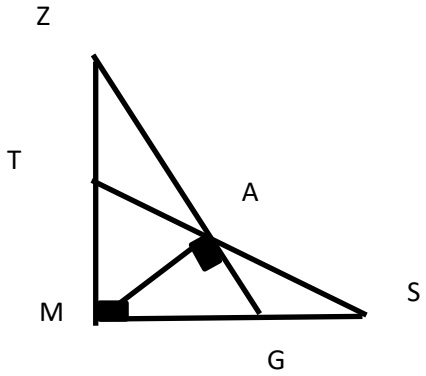
Complete the crossword puzzle below using the definition or description below:



1. _____ angles are angles opposite each other where two lines cross.
2. _____ pairs are formed when two lines intersect each other at a single point.
3. _____ are two angles that sum up to 180 degrees
4. A point of _____ is a point where two lines or curves meet
5. Two angles are _____ when they have a common side and a common vertex

Activity#2

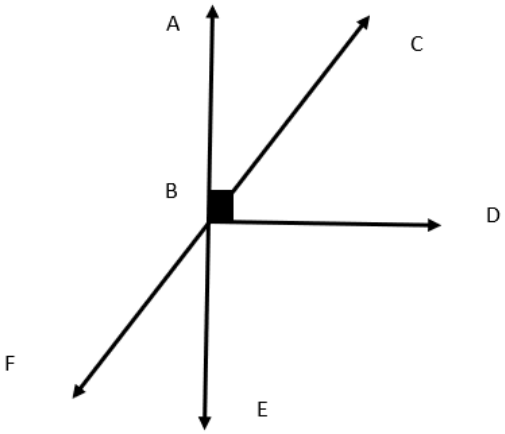
A. Identify each pair of linear, adjacent, vertical, complementary, and supplementary angles.



B. Group Activity. The class will be divided into 5 groups.

Identify what is being asked given $\angle ABD = 90$

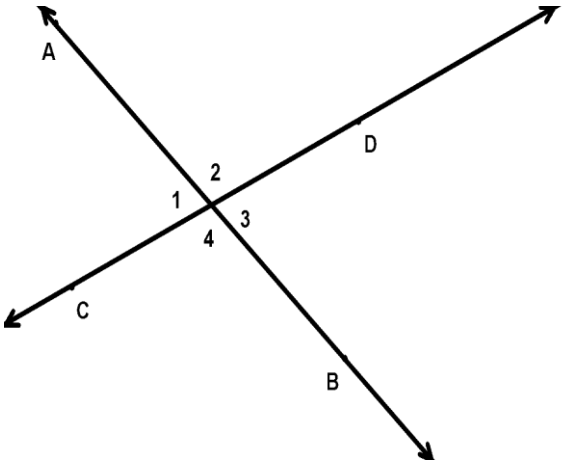
1. Name the angles adjacent to ∠ABC
2. Which angle forms a linear pair with ∠ABF
3. Name two congruent angles
4. Name the angle vertical to ∠ABC
5. Name the angle supplementary to ∠CBA
6. Name two complementary angles
7. Name the angles adjacent to ∠DBE
8. Name the angle that is congruent to ∠CBD
9. Name the angle supplementary to ∠DBE
10. If $\angle FBE = 34°$, what is $\angle ABC$? $\angle ABF$?
11. If $\angle ABC = 25°$, what is $\angle CBD$? $\angle DBE$
12. If ∠ABF = 150°, what is $\angle FBE$?



Activity#3

Find the measure of the angles given the following conditions:

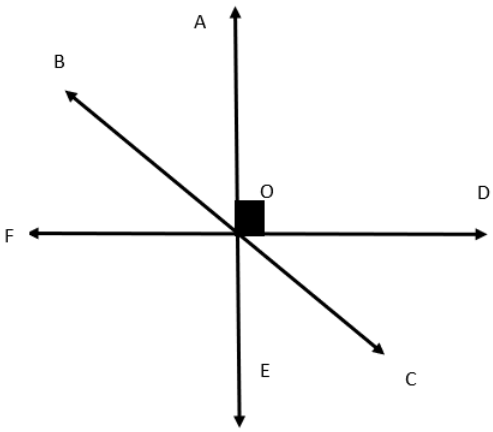
1. If ∠2= 113°, find ∠1, ∠3, ∠4
2. If ∠3 = 68°, find ∠1, ∠2, ∠4
3. If ∠4 = 134°, find ∠1, ∠2, ∠3
4. If ∠1 = 75.5°, find ∠2, ∠3
5. If ∠2= 156.48°, find ∠1, ∠2, ∠3



Activity#4

Identify what is being asked given $\angle AOD = 90°$ *and*

1. ∠AOB = 48°, find ∠BOF, ∠COE. ∠DOC, ∠FOE, ∠DOE
2. ∠BOD = 145°, find ∠BOF, ∠BOA, ∠FOC, ∠DOC, ∠COE



Activity#5

Given $\angle XOE = 75°$, $\angle AOD = 90°$, $\angle EOF = 90°$ = find as many angle measures as you can.