Ethio-Parents' School

2019/20 Second Semester Mathematics Worksheet Two for Grade 6

Topic – Geometry and Measurement

Part –I Write True if the statement is true or write False if the statement is false

1- 45° and 50° are complementary angles.
2- 6cm, 8cm and 10cm can be the measure of sides of a triangle.
3- An angle can be named by a single letter.
4- Perpendicular lines never intersect one another.
5- 24° is the supplement of 156°.
6- The measure of obtuse angle is between 180° and 360°.
7- Alternate interior angles are equal.
8- Corresponding angles are adjacent angles.
9- Equilateral triangle has three equal sides.
10- An angle which measures 180° is right angle.

Part II – Choose the correct answer for the following questions.

11- What is the supplement of 78° ?
A- **12°** **B- 112°** **C- 102°** **D- 150°**

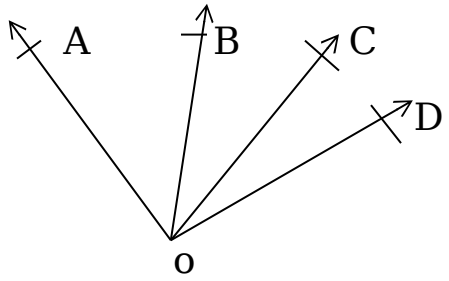
12- Which of the following triples of numbers can be assigned to the length of sides of a triangle?
A- **2cm, 1.5cm, 4cm** **C- 4cm, 3cm, 9cm**
B- **5.5cm, 7cm, 11cm** **D- 6.2cm, 4.4cm, 11cm**

13- If 11cm, 15cm and X are the lengths of the sides of a triangle, then what should be X?
A- **4cm** **B- 26cm** **C- 3.5cm** **D- 24cm**

14- An angle whose measure is between 180° and 360° is
A- **reflex angle** **B- obtuse angle** **C- acute angle** **D- straight angle**

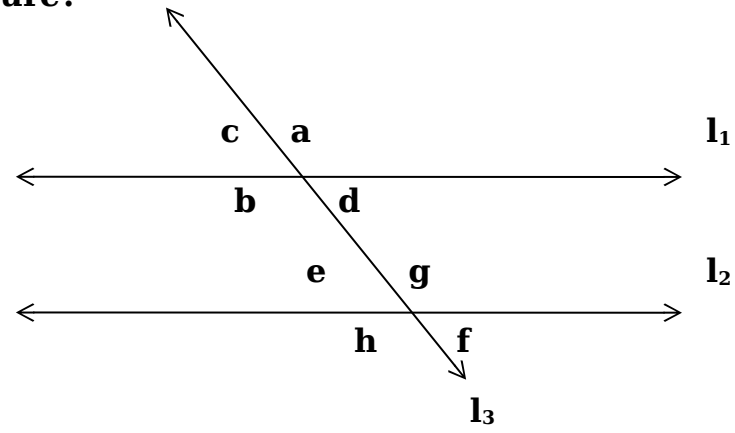
15- X and Y are complementary angles. If X = 31° then y= _____
A- 59° **B- 149°** **C- 69°** **D- 169°**

16- Which angles the following figure are not adjacent?



A- <AOB and <BOD
B- <BOC and <COD
C- <AOC and <DOC
D- < BOD and < BOC

17- In the following figure, l_1 and l2 parallel lines and l_3 is a transversal. Then which one of the following is false about the figure?



A- d and e are alternate interior angles
B- c and f are alternate exterior angles
C- a and h are equal
D- b and g are corresponding angles

18- A triangle in which two of its sides are congruent is called_____

A- Equilateral triangle

B- Scalene triangle

C- Isosceles triangle

D- Acute triangle

19- X and Y are complementary angles. If X is twice of Y, then X and Y are _____ and _____ respectively.

A- 60°, 120° B- 120°, 60° C- 150°, 30° D- 30°, 150°

20- If 90° < X < 180°, then X represents _____

A- Acute angle B- Reflex angle C- Obtuse angle D- Right angle

Part III- Fill in the blank space with appropriate words

21- _____ are lines that do not intersect each other.

22- _____ is the union of two rays with a common vertex.

23- The supplementary of 21° is _____

24- The complement of 84° is _____

25- The lines which intersect at a square corner are called _____

Part VI – Write the correct answer for the following questions

26- Explain triangles inequality

27- List types of angles

28- Define adjacent angle

Parts IV – Solve the following problems

29- Two angles X and Y are complementary angles. If X is half of Y, then find X and Y?

30- Two angles X and Y are supplementary angles. If Y is two – third of X, then find X and Y?