



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 08.03.21

Duration: 40 min

Worksheet Solution 16

Full Marks: 15

PARALLEL LINES

Choose the correct option:

1. Q.1) If two lines intersect at a point, then the vertically opposite angles are always _____.

- A. supplementary
- B. equal**
- C. unequal
- D. None of these

Q.2) Two angles forming a linear pair are _____.

- A. supplementary**
- B. None of these
- C. complimentary
- D. equal

Q.3) A line that intersects two or more lines at distinct points is called

- A. transversal**
- B. parallel
- C. None of these
- D. intersecting

Q.4) If two adjacent angles are supplementary, then they form _____.

- A. a linear pair of angles**
- B. a ray
- C. Corresponding angles
- D. vertically opposite angles

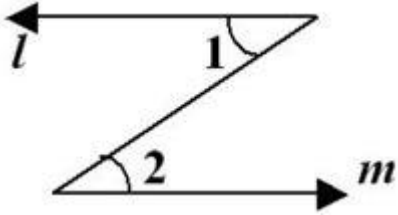
Q.5) If two angles are supplementary then the sum of their measures is _____.

- A. 45°
- B. 360°
- C. 90°
- D. 180°**

Q.6) If two angles are complementary, then the sum of their measures is _____.

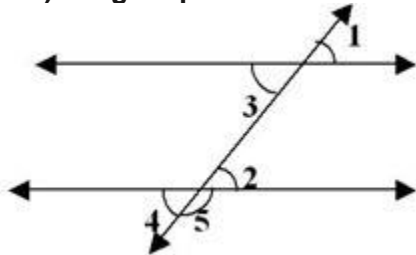
- A. 90°**
- B. 360°
- C. 45°
- D. 180°

Q.7) If $l \parallel m$, then $\angle 1 = \angle 2$ because they are _____.



- A. vertically opposite angles
- B. corresponding angles
- C. supplementary angles
- D. **alternate interior angles**

Q.8) In figure pair of alternate interior angles are:

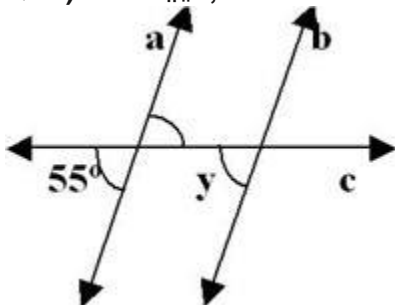


- A. $\angle 2, \angle 5$
- B. None of these
- C. $\angle 1, \angle 2$
- D. $\angle 2, \angle 3$

Q.9) If two parallel lines are cut by a transversal, each pair of the corresponding angles are _____ in measure.

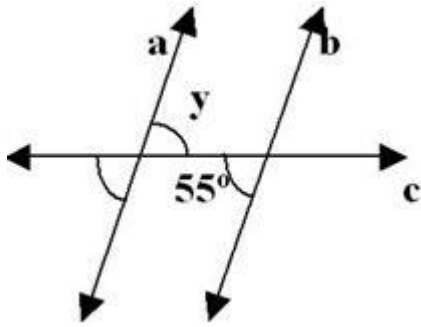
- A. complimentary
- B. supplementary
- C. unequal
- D. **equal**

Q.10) Line $a \parallel b$, c is a transversal then $\angle y = ?$



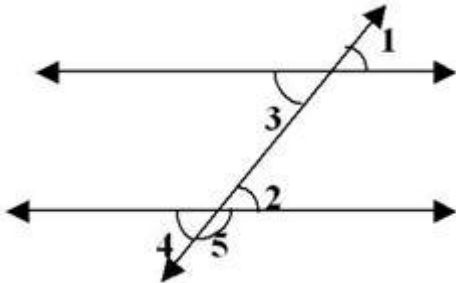
- A. 125°
- B. 90°
- C. 180°
- D. **55°**

Q.11) Line $a \parallel b$, c is a transversal then $\angle y = ?$



- A. 180°
- B. 90°
- C. 55°
- D. 125°

Q.12) In figure pair of alternate exterior angles are:



- A. $\angle 1, \angle 5$
- B. $\angle 1, \angle 4$
- C. $\angle 1, \angle 2$
- D. None of these

Q.13) The difference in the measures of two complementary angles is 12° . Find the measures of the angles.

- A. 51° and 49°
- B. 51° and 39°
- C. 50° and 40°
- D. None of these

Q.14) What is the measure of the complement of 45° ?

- A. None of these
- B. 55°
- C. 45°
- D. 65°

Q.15) What is the measure of the complement of 65° ?

- A. 65°
- B. 55°
- C. 45°
- D. 25°