1. **A line that intersects two or more lines at distinct points is called**

   (a) Parallel (b) transversal (c) intersecting (d) none of these

2. **If two adjacent angles are supplementary, then they form _____ .**

   (a) Corresponding angles (b) vertically opposite angles

   (c) a linear pair of angles (d) a ray

3. **If two angles are supplementary then the sum of their measures is _____ .**

   (a) 90° (b) 180° (c) 360° (d) 45°

4. **If two angles are complementary, then the sum of their measures is _____.**

   (a) 45° (b) 180° (c) 90° (d) 360°

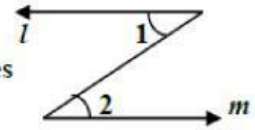
5. **If two lines intersect at a point, then the vertically opposite angles are always _____ .**

   (a) equal (b) unequal (c) supplementary (d) complementary

6. **Two angles forming a linear pair are _____.**

   (a) equal (b) supplementary (c) unequal (d) complementary

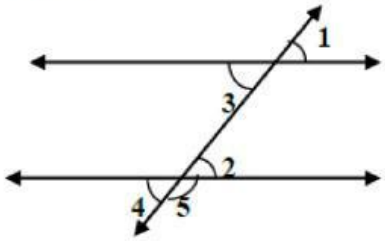
7. **If $l \parallel m$, then $\angle 1 = \angle 2$ because they are _____,**



   (a) corresponding angles (b) vertically opposite angles

   (c) alternate interior angles (d) supplementary angles

8. **In fig. pair of alternate interior angles are:**



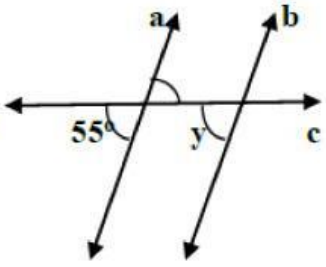
   (a) $\angle 1, \angle 3$ (b) $\angle 2, \angle 3$

   (c) $\angle 2, \angle 5$ (d) $\angle 1, \angle 2$

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

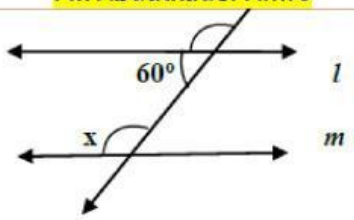
   (a) Equal (b) unequal (c) supplementary (d) complementary

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



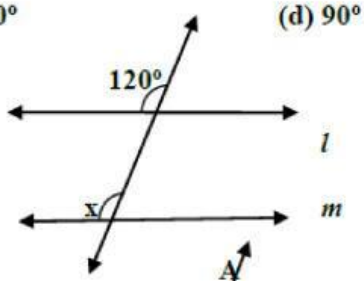
   (a) 90° (b) 125° (c) 55° (d) 180°

11. Lines $l \parallel m$, t is a transversal then $\angle x = ?$



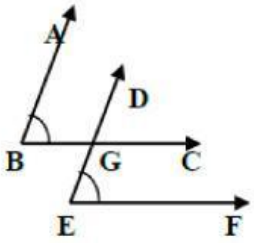
(a) 120° (b) 60° (c) 180° (d) 90°

12. Lines $l \parallel m$, t is a transversal then $\angle x = ?$



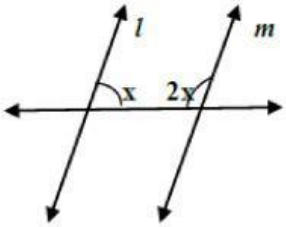
(a) 120° (b) 60° (c) 180° (d) 90°

13. If arms of two angles are parallel, then find the $\angle DEF$



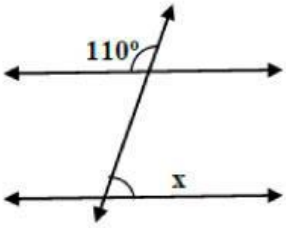
(a) 15° (b) 90° (c) 180° (d) 75°

14. Find x if $l \parallel m$



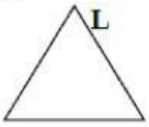
(a) 30° (b) 60° (c) 90° (d) 180°

15. Find the value of x if $l \parallel m$



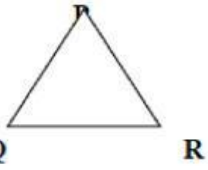
(a) 110° (b) 70° (c) 90° (d) 180°

16. Angle opposite to the side LM of Δ LMN



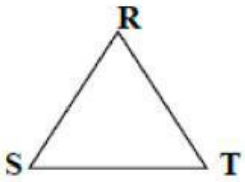
(a) $\angle N$ (b) $\angle L$ (c) $\angle M$ (d) none of these

17. Side opposite to the vertex Q of Δ PQR



(a) PQ (b) QR (c) PR (d) none of these

18. Vertex opposite to the side RT of Δ RST



(a) S (b) T (c) R (d) none of these

19. How many medians a triangle can have?

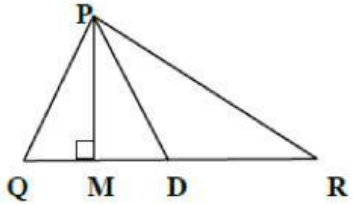
(a) 2 (b) 1 (c) 3 (d) 0

20. A/an _____ connect a vertex of a triangle to the mid point of the opposite side.

(a) altitude (b) median (c) vertex (d) none of these

21. How many altitude can a triangle have?

(a) 1 (b) 2 (c) 3 (d) 4

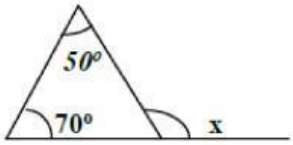


22. In Δ PQR , PM is

(a) Median (b)altitude (c)bisector (d) side

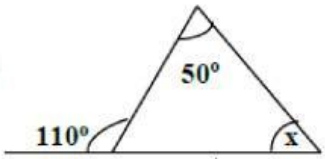
23. Find the value of x

(a) 50° (b) 70° (c) 120° (d) 180°



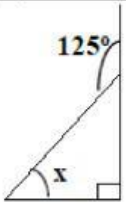
24. Find the value of x

(a) 60° (b)110° (c) 50° (d) 180°

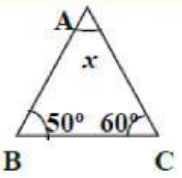


25. The value of x in the adjoining figure is

(a) 125° (b) 90° (c) 180 (d) 35°

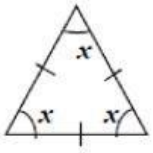


26. Find the value of unknown x



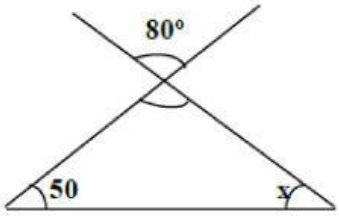
(a) 50° (b) 60° (c) 70° (d) 90°

27. Find the value of x



(a) 20° (b) 60° (c)90° (d)180°

28. What is the value of x in the adjoining figure



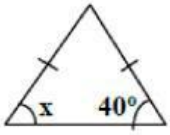
(a) 50° (b)80° (c) 130° (d)180°

29. A triangle in which two sides are of equal lengths is called _____ .

(a) Equilateral (b)Isosceles (c) Scalene (d) Acute angled triangle

30. Find the value of x in this figure.

(a) 40° (b) 60° (c)90° (d) 180°



31. The sum of the lengths of any two sides of a triangle is _____ the third side of the triangle.

(a) less than (b) greater than (c) double (d) half

32. Which pair of following angles are complementary ?

(a) 70°, 20° (b) 75°, 25° (c) 48°, 52° (d) 35°,55°

33. Which pair of following angles are supplementary ?

(a) 110°, 50° (b) 105°, 65° (c) 50°, 130° (d) 45°, 45°

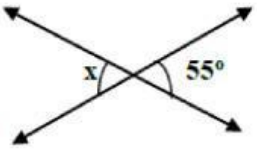
34. What is complement of 63°?

(a)18° (b) 27° (c) 30° (d)21°

35. **Find the supplement of 105°.**

(a)80° (b) 65° (c) 75° (d)100°

36. **Find the value of x in given figure**

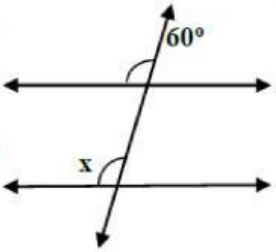


(a) 180° (b) 55° (c) 90° (d)125°

37. **If two angles are complementary, then the sum of their measures is _____ .**

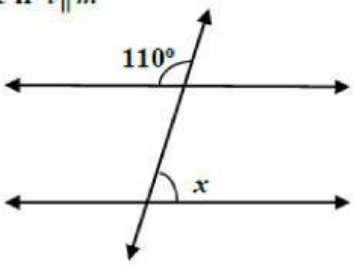
(a)180° (b)90° (c) 360° (d)100°

38. **What is the measure of angle x**



(a) 90° (b) 60° (c)180° (d)120°

39. **Find the value of x in figure if $l \| m$**



(a) 70° (b) 110° (c)180° (d)100°

40. **In the Pythagoras property , the triangle must be _____ .**

(a) acute angled (b) right angled (c) obtuse angled (d) none of these.

Analyze Your Performance

Questions	Tally Marks	Revise These concepts
2,3,4,5,6,32,33,34,35,37		Pair of angles Complementary angles, supplementary angles, adjacent angles
1,36		Intersecting lines
7,8,9,10,11,12,13,14,15,38,39		Angles made by a transversal
16,17,18,19,20,21,22,23,24,25, 26,27,28,29,30,31,40		Triangles – altitude, median, exterior angle property, angle sum property