



GRADE 9TH MATHS
CHAPTER 6

Lines and Angles

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MCQ Questions for Class 9 Maths Chapter 6 Lines and Angles

1. The supplementary angles are in the ratio 4:5 find the angles.

- (a) 145° , 35°
- (b) 45° , 135°
- (c) 80° , 100°
- (d) 90° , 90°

2. An angle is 14° more than its complementary angle, then angle is :

- (a) 38°
- (b) 52°
- (c) 50°
- (d) None of these

3. The measure of an angle which is a supplement of itself is :

- (a) 45°
- (b) 30°
- (c) 90°
- (d) 180°

4. The angle whose complement is one-third of its supplement will be

- (a) 135°
- (b) 90°
- (c) 180°
- (d) 45°

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5. If two parallel lines are cut by a transversal, then the pairs of _____ angles are congruent.

- (a) Equal
- (b) Complementary
- (c) Supplementary
- (d) Corresponding

6. Given four points such that no three of them are collinear, then the number of lines that can be drawn through them are:

- (a) 4 lines
- (b) 8 lines
- (c) 6 lines
- (d) 2 lines

7. If two angles are complementary of each other, then each angle is :

- (a) An Obtuse angle
- (b) A Right angle
- (c) An Acute angle
- (d) A supplementary angle

8. Two lines are parallel to each other, only when

- (a) They do not intersect each other when extended on either side
- (b) The lines lie on the same plane
- (c) They are parallel to the plane in which they lie

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(d) Their point of intersection is a unique point

9. If two straight lines are perpendicular to a line l , then they are.

(a) The lines intersect each other when extended

(b) Parallel to each other

(c) The angle between the two lines is 180°

(d) Perpendicular to each other

10. The sum of two angles of a triangle is 116° and their difference is 24° . The measure of each angle of the triangle is

(a) $40^\circ, 60^\circ, 80^\circ$

(b) $70^\circ, 46^\circ, 64^\circ$

(c) $70^\circ, 50^\circ, 60^\circ$

(d) $60^\circ, 90^\circ, 30^\circ$

11. An exterior angle of triangle is 80° and the interior opposite angles are in the ratio 1:3. Measure of each interior opposite angle is:

(a) $30^\circ, 60^\circ$

(b) $30^\circ, 90^\circ$

(c) $40^\circ, 120^\circ$

(d) $20^\circ, 60^\circ$

12. The angles of a triangle are in the ratio 2:3:4. So, the degree measures of the angles are

(a) $20^\circ, 30^\circ, 40^\circ$

(b) $40^\circ, 60^\circ, 80^\circ$

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(c) $80^\circ, 20^\circ, 80^\circ$

(d) $10^\circ, 15^\circ, 20^\circ$

13. The three angles of a triangle, one is twice the smallest and another one is thrice the smallest. find the angles

(a) $70^\circ, 50^\circ, 60^\circ$

(b) $40^\circ, 60^\circ, 80^\circ$

(c) $80^\circ, 50^\circ, 50^\circ$

(d) $60^\circ, 90^\circ, 30^\circ$

14. If two parallel lines are intersected by a transversal then, pair of alternate interior angles are:

(a) Equal

(b) Sum of the two angles is 360°

(c) Complementary

(d) Supplementary

15. If two interior angles on the same side of a transversal intersecting two parallel lines in the ratio 2:3, then find the larger of two angles.

(a) 72°

(b) 108°

(c) 54°

(d) 36°

16. Which one of the following is not correct?



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- (a) If two lines are intersected by a transversal, then alternate angles are equal.
- (b) If two lines are intersected by a transversal then sum of the interior angles on the same side of transversal is 180° .
- (c) If two lines are intersected by a transversal then corresponding angles are equal.
- (d) All of these.

17. There are four lines in a plane no two of which are parallel. The maximum number of points in which they can intersect is :

- (a) 4
- (b) 5
- (c) 6
- (d) 7

18. If in triangle DEF, the greatest angle is twice the smallest and the third angle is 20 degrees more than the smallest, what are the angles?

- (a) $20^\circ, 40^\circ, 40^\circ$
- (b) $40^\circ, 60^\circ, 80^\circ$
- (c) $30^\circ, 50^\circ, 100^\circ$
- (d) $30^\circ, 60^\circ, 80^\circ$

19. X lies in the interior of $\angle BAC$. If $\angle BAC = 70^\circ$ and $\angle BAX = 42^\circ$ then $\angle XAC = ?$

- (a) 28°
- (b) 29°
- (c) 27°

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(d) 30°

20. Which one of the following statements is not false?

(a) If two angles forms a linear pair, then each of these angles is of measure 90° .

(b) Angles forming a linear pair can both be acute angles.

(c) One of the angles forming a linear pair can be obtuse angle.

(d) Bisectors of the adjacent angles form a right angle.

21. If a transversal intersects two parallel lines, then the consecutive interior angles are

(a) equal

(b) congruent

(c) supplementary

(d) complementary

22. If two parallel lines are intersected by a transversal, then the bisectors of any two corresponding angles are

(a) perpendicular

(b) bisect each other

(c) Intersect

(d) parallel

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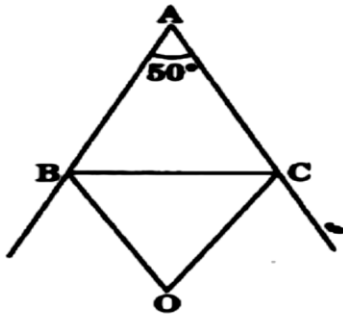


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Section B

Question 1.

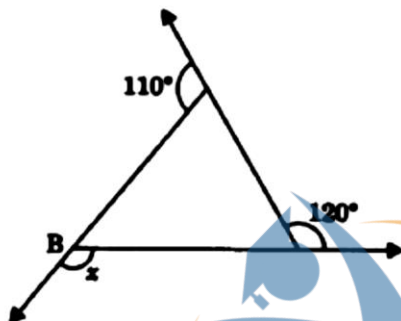
In $\triangle ABC$, $\angle A = 50^\circ$ and the external bisectors of $\angle B$ and $\angle C$ meet at O as shown in figure. The measure of $\angle BOC$ is



- (a) 40°
- (b) 65°
- (c) 115°
- (d) 140°

Question 2.

In figure the value of x is



- (a) 120°
- (b) 130°
- (c) 110°
- (d) 100°

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Question 3.

An exterior angle of a triangle is 80° and the interior opposite angles are in the ratio 1 : 3, measure of interior opposite angles are

- (a) $30^\circ, 90^\circ$
- (b) $40^\circ, 120^\circ$
- (c) $20^\circ, 60^\circ$
- (d) $30^\circ, 60^\circ$

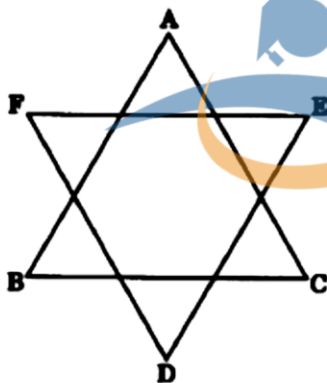
Question 4.

In $\triangle ABC$, the bisectors of $\angle ABC$ and $\angle BCA$ intersect each other at O. The measure of $\angle BOC$ is

- (a) $90^\circ + \angle A$
- (b) $90^\circ + \frac{\angle A}{2}$
- (c) $180 - \angle A$
- (d) $90^\circ - \frac{\angle A}{2}$

Question 5.

In figure if $\angle A + \angle B + \angle C + \angle D + \angle E + \angle F = k$ right angles, then find value of k.



- (a) 2
- (b) 3
- (c) 4
- (d) 5

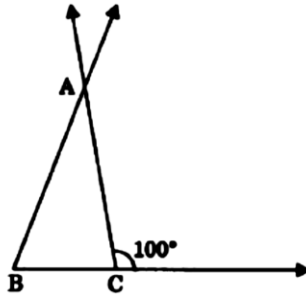
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Question 6.

In the given figure, the measure of \angle ACB is



- (a) 80°
- (b) 20°
- (c) 100°
- (d) 60°

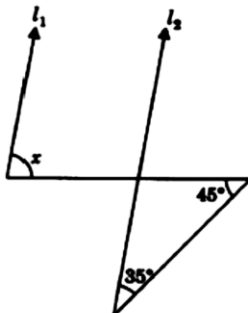
Question 7.

The angle of a triangle are in the ratio 5 : 3 : 7, the triangle is

- (a) an acute-angled triangle
- (b) an obtuse angled triangle
- (c) an right angled triangle
- (d) an isosceles triangle.

Question 8.

In figure $l_1 \parallel l_2$, the value of x is



- (a) 80°
- (b) 100°
- (c) 110°
- (d) 70°

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Question 9.

If one angle of triangle is equal to the sum of the other two, then the triangle is

- (a) an isosceles triangle
- (b) an obtuse-angled triangle
- (c) an equilateral triangle
- (d) a right triangle

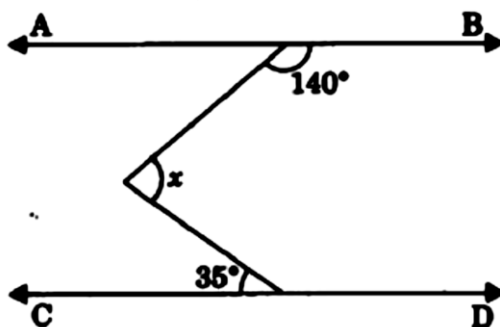
Question 10.

One of the angles of a triangle is 75° . If the difference of other two is 35° , then the largest angle of other two angles has a measure

- (a) 80°
- (b) 75°
- (c) 70°
- (d) 135°

Question 13.

In Figure $AB \parallel CD$, the value of x is



- (a) 35°
- (b) 40°
- (c) 60°
- (d) 75°