



GRADE 8TH MATHS
CHAPTER 3

Understanding Quadrilaterals

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1. The diagonal of a rectangle is 10 cm and its breadth is 6 cm. What is its length?

- (a) 6 cm
- (b) 5cm
- (c) 8cm
- (d) 4cm

2. How many diagonals does a rectangle have?

- (a) 2
- (b) 1
- (c) 0
- (d) None of these

3. In the quadrilateral ABCD, the diagonals AC and BD are equal and perpendicular to each other. What type of a quadrilateral is ABCD?

- (a) A square
- (b) A parallelogram
- (c) A rhombus
- (d) A trapezium

4. The sum of the measures of the three angles of a triangle is _____.

- (a) 360°
- (b) 210°
- (c) 180°
- (d) None of these

5. A _____ is both 'equiangular' and 'equilateral'.

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(a) Regular polygon

(b) Triangle

(c) Quadrilateral

(d) None of these

6. Which of the following is true for the adjacent angles of a parallelogram?

(a) they are equal to each other

(b) they are complementary angles

(c) they are supplementary angles

(d) None of these

7. Find the measure of each exterior angle of a regular polygon of 9 sides.

(a) 30°

(b) 90°

(c) 40°

(d) 60°

8. State the name of a regular polygon of 6 sides.

(a) pentagon

(b) hexagon

(c) heptagon

(d) none of these

9. State the name of a regular polygon of 5 sides.

(a) hexagon

(b) quadrilateral

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(c) pentagon

(d) heptagon

10. A simple closed curve made up of only line segments is called a _____.

(a) polygon

(b) quadrilateral

(c) hexagon

(d) none of these

11. ABCD is a quadrilateral. If AC and BD bisect each other, what is ABCD?

(a) A square

(b) A parallelogram

(c) A rectangle

(d) All the above

12. ABCD is a quadrilateral. If AC and BD bisect each other, what is ABCD?

(a) A square

(b) A parallelogram

(c) A rectangle

(d) All the above

13. The angle sum of a convex polygon with number of sides 7 is

(a) 900°

(b) 1080°

(c) 1440°

(d) 720°

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14. The angle sum of a convex polygon with number of sides n is

- (a) $(n - 2) 180^\circ$
- (b) $(n + 2) 180^\circ$
- (c) $(2n - 4) 180^\circ$
- (d) $(2n + 4) 180^\circ$

15. If the sides of a triangle are produced in order, What is the sum of the exterior angles so formed?

- (a) 540°
- (b) 180°
- (c) 720°
- (d) 360°

16. The angle sum of a convex polygon with number of sides 10 is

- (a) 720°
- (b) 900°
- (c) 1080°
- (d) 1440°

17. The measures of the three angles of a quadrilateral are 65° , 75° and 85° . The measure of the fourth angle is

- (a) 65°
- (b) 75°
- (c) 85°
- (d) 135°

18. The measures of two angles of a quadrilateral are 110° and 100° . The remaining two angles are equal. The measure of each of the remaining two angles is

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- (a) 30°
- (b) 60°
- (c) 75°
- (d) 45°

19. The measure of each exterior angle of a regular polygon of 15 sides is

- (a) 30°
- (b) 45°
- (c) 60°
- (d) 24°

20. The number of sides of a regular polygon, whose each exterior angle has a measure of 45° , is

- (a) 4
- (b) 6
- (c) 8
- (d) 10

21. Two adjacent angles of a quadrilateral measure 130° and 40° . The sum of the remaining two angles is

- (a) 190°
- (b) 180°
- (c) 360°
- (d) 90°

22. Out of the three equal angles of a quadrilateral, each measures 70° . The measure of the fourth angle is

- (a) 90°

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(b) 140°

(c) 150°

(d) 70°

