

Grade 8 Understanding Quadrilaterals Worksheets

Grade 8 Maths Understanding Quadrilaterals Multiple Choice Questions (MCQs)

1. **A polygon with minimum number of sides is:**

- (a) Pentagon
- (b) Square
- (c) Triangle
- (d) Angle

2. **Polygons that have no portions of their diagonals in their exteriors are called:**

- (a) Squares
- (b) Triangles
- (c) Convex
- (d) Concave

3. **Polygons that have any portions of their diagonals in their exteriors are called:**

- (a) Squares
- (b) Triangles
- (c) Convex
- (d) Concave

4. **All the sides of a regular polygon are**

- (a) parallel
- (b) equal in length
- (c) not parallel
- (d) not equal

5. **All the angles of a regular polygon are of**

- (a) 90°
- (b) 60°
- (c) equal measure
- (d) equal length

6. **Sum of all interior angles of a polygon with (n) sides is given by:**

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

7. **The angle sum of all interior angles of a convex polygon of sides 7 is:**

- (a) 180°
- (b) 540°

- (c) 630°
- (d) 900°

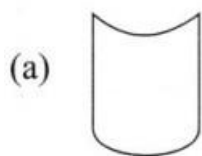
8. Each exterior angle of a regular hexagon is of measure:

- (a) 120°
- (b) 80°
- (c) 100°
- (d) 60°

9. The number of sides in a regular polygon is 15, then measure of each exterior angle is:

- (a) 24°
- (b) 36°
- (c) 20°
- (d) 18°

10. Which of the following polygons is convex polygon?



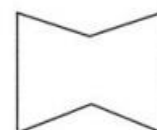
(b)



(c)

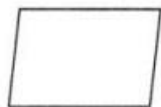


(d)

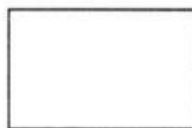


11. Which of the following is concave polygon?

(a)



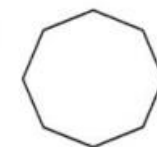
(b)



(c)

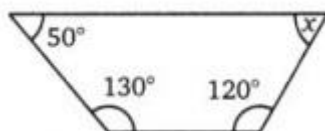


(d)



12. The value of (x) in the following figure is:

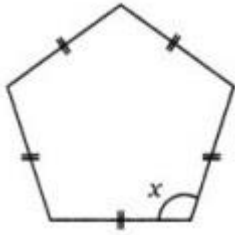
- (a) 120°
- (b) 80°
- (c) 100°
- (d) 60°



13. The value of x in the following figure is:

- (a) 100°
- (b) 90°
- (c) 108°

(d) 120°



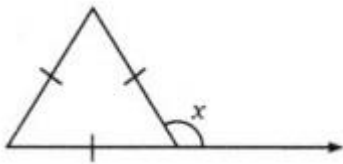
14. The value of x in the following figure is:

(a) 120°

(b) 180°

(c) 60°

(d) 100°



15. A parallelogram each of whose angles measures 90° is

(a) rectangle

(b) rhombus

(c) kite

(d) trapezium

16. How many sides does a heptagon have?

(a) 2

(b) 4

(c) 7

(d) 5

17. How many diagonals does a regular Hexagon has?

(a) 2

(b) 9

(c) 3

(d) 5

18. What is the number of sides in Hexagon?

(a) 4

(b) 7

(c) 6

(d) 5

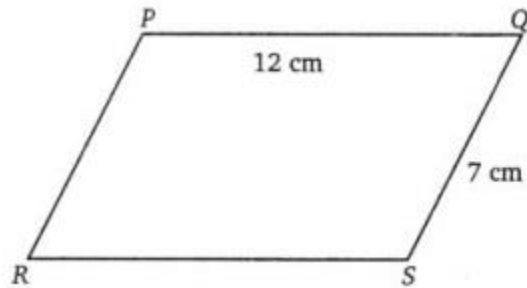
19. The perimeter of parallelogram PQRS is:

(a) 12 cm

(b) 7 cm

(c) 38 cm

(d) 19 cm



20. **The diagonals of a square are each other.**

- (a) equal to
- (b) unequal to
- (c) perpendicular bisectors of
- (d) none of these

Class 8 Maths Understanding Quadrilaterals Fill In The Blanks

1. A simple closed curve made up of only is called a polygon.
2. The measure of each interior angle of a regular polygon is 140° , then number of sides that regular polygon has
3. The diagonals of a rhombus bisect each other at angles.
4. The diagonals of square bisect each other at angles.
5. The opposite angles of a parallelogram are

Class 8 Maths Understanding Quadrilaterals True(T) Or False(F)

1. All rectangles are squares.
2. All rhombuses are parallelograms.
3. All squares are not parallelograms.
4. All kites are rhombuses.
5. All squares are Trapeziums.

Class 8 Maths Understanding Quadrilaterals Very Short Answer Type Questions

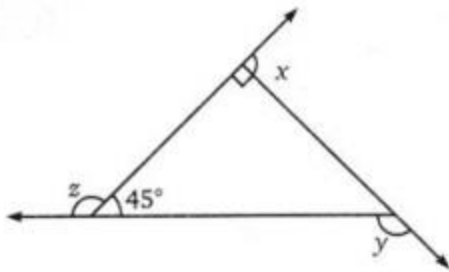
1. What is the sum of the interior angles of a polygon having 9 sides?
2. What is the measure of each exterior angle of a regular polygon having 10 sides?
3. The angles of a quadrilateral are respectively 100° , 98° , 92° . Find the fourth angle.
4. In a quadrilateral, the angles A, B, C and D are in the ratio 1 : 2 : 3 : 4. Find the measure of each angle of the quadrilateral.
5. How many sides does a regular polygon have if the measure of an exterior

angle is 24° ?

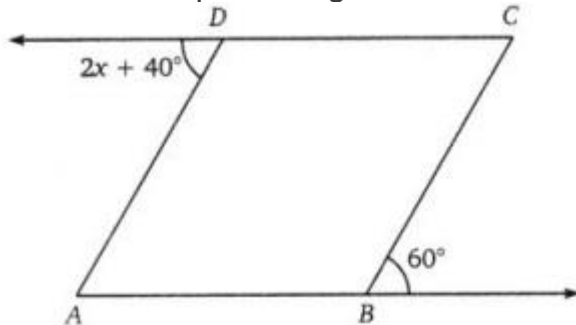
6. What is a parallelogram whose all sides are equal is called?

Class 8 Maths Understanding Quadrilaterals Short Answer Type Questions

1. In the adjoining figure find $x + y + z$.

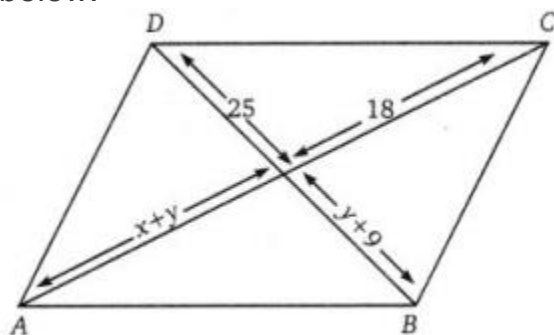


2. ABCD is a parallelogram. What is the value of x ?



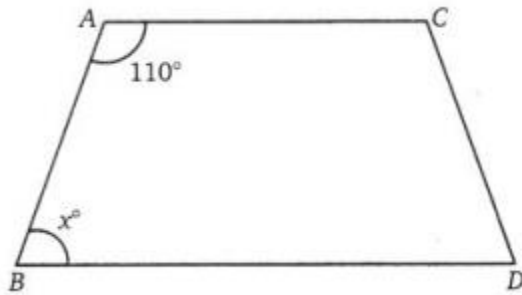
3. The ratio of two adjacent sides of a parallelogram is $3 : 1$ and its perimeter is 72 cm. What is the length of the adjacent sides?

4. ABCD is a parallelogram. What is the value of x and y in the figure given below:

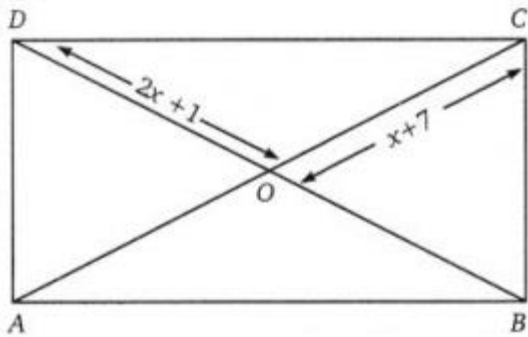


Class 8 Maths Understanding Quadrilaterals Long Answer Type Questions

1. ABCD is a trapezium. What is the value of x ?



2. ABCD is a rectangle. What is the length of the diagonal AC?



3. The adjacent figure HOPE is a parallelogram. Find the angle measure x , y and z . State the properties you use to find them.

