

Grade 6 Understanding Elementary Shapes Worksheets

Grade 6 Maths Understanding Elementary Shapes Multiple Choice Questions (MCQs)

1. An angle whose measure is equal to one-fourth of a revolution is:

- (a) acute angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

2. An angle whose measure is equal to half of a revolution is:

- (a) acute angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

3. An angle whose measure is equal to a full revolution is:

- (a) complete angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

4. An angle whose measure is equal to 90° :

- (a) acute angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

5. An angle whose measure is less than 90° :

- (a) acute angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

6. An angle whose measure is more than 90° :

- (a) acute angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

7. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 12 to 3?

- (a) $\frac{1}{2}$

- (b) $\frac{3}{4}$
- (c) $\frac{1}{4}$
- (d) none of these

8. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 3 to 6?

- (a) $\frac{1}{2}$
- (b) $\frac{3}{4}$
- (c) $\frac{1}{4}$
- (d) none of these

9. Which direction will you face if you start facing east and make $\frac{3}{4}$ of a revolution clockwise?

- (a) east
- (b) west
- (c) north
- (d) south

10. Which direction will you face if you start facing east and make $1\frac{1}{2}$ of a revolution clockwise?

- (a) east
- (b) west
- (c) north
- (d) south

11. An angle whose measure is more than 180° but less than 360° :

- (a) reflex angle
- (b) obtuse angle
- (c) right angle
- (d) straight angle

12. If each angle is less than 90° , then the triangle is called

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

13. If any one angle is a right angle then the triangle is called

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

14. Name the type of triangle: APQR such that $PQ = QR = PR = 5$ cm.

- (a) Scalene triangle
- (b) Isosceles triangle
- (c) Right triangle
- (d) Equilateral triangle

15. Name the type of triangle: APQR such that $PQ = QR = 5$ cm and $PR = 7$ cm.

- (a) Scalene triangle
- (b) Isosceles triangle
- (c) Right triangle
- (d) Equilateral triangle

16. Name the polygon with 6 sides.

- (a) Triangle
- (b) Quadrilateral
- (c) Pentagon
- (d) Hexagon

17. Name the polygon with 8 sides.

- (a) Octagon
- (b) Quadrilateral
- (c) Pentagon
- (d) Hexagon

18. A cuboid has edges.

- (a) 4
- (b) 6
- (c) 8
- (d) 12

19. The number of faces of a cone is

- (a) 1
- (b) 6
- (c) 2
- (d) 3

20. The number of faces of a triangular prism is

- (a) 4
- (b) 5
- (c) 6
- (d) none of these

Class 6 Maths Understanding Elementary Shapes True (T) or False (F)

1. Each angle of a rectangle is a right angle.
2. The opposite sides of a rectangle are equal in length.
3. The diagonals of a square are perpendicular to one another.
4. All the sides of a rhombus are of equal length.
5. The opposite sides of a trapezium are parallel.

Class 6 Maths Understanding Elementary Shapes Match the following

Measures of Triangles	Type of Triangle
1. 3 sides of equal length	i. Scalene
2. 2 sides of equal length	ii. Isosceles right angled
3. All sides are of different length	iii. Equilateral
4. 3 acute angles	iv. Acute angled
5. 1 right angles with two sides of equal length	v. Isosceles

Class 6 Maths Understanding Elementary Shapes Very Short Answer Type Questions

1. Name a polygon with number of sides as
 - (a) 4
 - (b) 8
2. What shape is
 - (a) Tube light
 - (b) Earth?
3. Give an example of an object showing:
 - (a) an acute angle
 - (b) straight angle
4. Name the three types of triangles based on sides.
5. Classifying the following angles:
 - (a) 210°
 - (b) 78°
6. Name any two quadrilaterals.
 - (a), (b)

Class 6 Maths Understanding Elementary Shapes Short Answer Type Questions

1. Square is a special type of rhombus. Do you agree? Give reason.
2. What is the shape of the following objects?
 - (a) a football
 - (b) a joker's cap
 - (c) a metal pipe

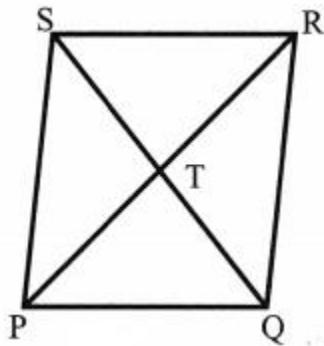
3. If A, B, C, are three points on a line such that $AB = 5 \text{ cm}$, $BC = 3 \text{ cm}$ and $AC = 8 \text{ cm}$, which one of them lies between the other two?

4. What part of a revolution have you turned through if you stand facing:

- east and turn clockwise to face north?
- south and turn clockwise to face east?
- west and turn clockwise to face east?

Class 6 Maths Understanding Elementary Shapes Long Answer Type Questions

1. Write the number of faces, edges and vertices of the following solids:
 - Cube
 - Triangular Pyramid
 - Square Pyramid
 - Rectangular Prism
2. PQRS is a rhombus with $PQ = 4.1 \text{ cm}$ And diagonal $PR = 6 \text{ cm}$. Find
 - Sides PS, QR and RS
 - $\angle STR$
 - Length of PT and TR



3. In the given figure:

- Name the vertex of angle 3.
- Give full names of angles 2 and 4.
- Name the arms of angle 3.

(d) Name the angle formed by angle 1 and 2.

