

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**

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(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

- Name a polygon with number of sides as
 - 4
 - 8
- What shape is
 - Tube light
 - Earth?
- Give an example of an object showing:
 - an acute angle
 - straight angle
- Name the three types of triangles based on sides.
- Classifying the following angles:
 - 210°
 - 78°
- Name any two quadrilaterals.
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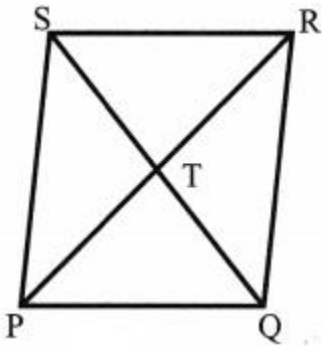
Class 6 Maths Understanding Elementary Shapes Short Answer Type Questions

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

3. If A, B, C, are three points on a line such that $AB = 5$ cm, $BC = 3$ cm and $AC = 8$ cm, which one of them lies between the other two?
4. What part of a revolution have you turned through if you stand facing:
- (a) east and turn clockwise to face north?
 - (b) south and turn clockwise to face east?
 - (c) 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:
- (a) Cube
 - (b) Triangular Pyramid
 - (c) Square Pyramid
 - (d) Rectangular Prism
2. PQRS is a rhombus with $PQ = 4.1$ cm And diagonal $PR = 6$ cm. Find
- (a) Sides PS, QR and RS
 - (b) $\angle STR$
 - (c) Length of PT and TR



3. In the given figure:
- (a) Name the vertex of angle 3.
 - (b) Give full names of angles 2 and 4.
 - (c) Name the arms of angle 3.

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

