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.
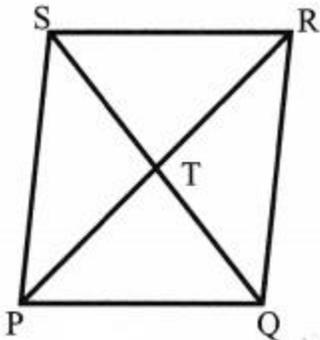(a), (b)

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 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) ∠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.