

Choose the correct option

1. The angle formed between the east and the north direction is
 - (a) 60°
 - (b) 80°
 - (c) 90°
 - (d) 180°
2. Two and a half right angles equals
 - (a) 180°
 - (b) 135°
 - (c) 225°
 - (d) 270°
3. Number of right angles turned by the hour hand of a clock when it goes from 3 to 6 are:
 - (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
4. The measure of a complete angle is
 - (a) 90°
 - (b) 180°
 - (c) 360°
 - (d) none of these
5. If a bicycle wheel has 36 spokes, then the angle between a pair of adjacent spokes is
 - (a) 10°
 - (b) 15°
 - (c) 12°
 - (d) 20°

Objective Type Questions

6. A triangle can have ____ right angles
7. The opposite sides of a rectangle are ____.
8. A rectangle whose adjacent sides are equal is called ____.
9. An angle more than 180° and less than 270° is called an obtuse angle. (True/ False)
10. Each angle of an equilateral triangle is a right angle. (True/ False)

Short/ Long Questions

11. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from
 - (a) 6 to 12 ?
 - (b) 5 to 8 ?
12. Which direction will you face if you start facing?
 - (i) West and make $\frac{1}{2}$ of a revolution clockwise?
 - (ii) East and make one full revolution?
13. What part of a revolution have you turned through if you stand facing?
 - (i) North and turn clockwise to face west?
 - (ii) South and turn anticlockwise to face west?
14. Where will the hour hand of a clock stop if it starts?
 - (i) from 7 and turns through 1 right angle?
 - (ii) from 11 and turns through 3 right angles?
15. Name the type of triangles:

<ol style="list-style-type: none"> (i) $6.5\text{cm}, 8\text{cm}, 8.5\text{cm}$ (ii) $9\text{cm}, 9\text{cm}, 9\text{cm}$ (iii) $30^\circ, 60^\circ, 90^\circ$ (iv) $99^\circ, 50^\circ, 31^\circ$ (v) $46^\circ, 58^\circ, 76^\circ, AB = AC = 7\text{cm}$ (vi) $\triangle ABC$ with angle $B = 90^\circ, AB = BC = 6\text{cm}$

16. **Case Study Question**

You have heard of directions in Geography. Referring to the world map, we know the position of China, Sri Lanka and India. There are 4 main directions: north, south, east and west. Using this information answer the following questions:

- a) China is ____ of India.
- b) Sri Lanka is ____ of India.
- c) Sun rises from ____.
- d) Sun sets from ____.