

**Choose the correct option**

- 1 The angle formed between the east and the north direction is  
(a)  $60^\circ$  (b)  $80^\circ$  (c)  $90^\circ$  (d)  $180^\circ$
- 2 Two and a half right angles equals  
(a)  $180^\circ$  (b)  $135^\circ$  (c)  $225^\circ$  (d)  $270^\circ$
- 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)  $90^\circ$  (b)  $180^\circ$  (c)  $360^\circ$  (d) none of these
- 5 If a bicycle wheel has 36 spokes, then the angle between a pair of adjacent spokes is  
(a)  $10^\circ$  (b)  $15^\circ$  (c)  $12^\circ$  (d)  $20^\circ$

**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  $180^\circ$  and less than  $270^\circ$  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:  
(i) 6.5cm, 8cm, 8.5cm (ii) 9cm, 9cm, 9cm  
(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 ____.         |