

## BHARATH COACHING CENTRE

7<sup>th</sup> cbse

Maths

Total: 40

Lines and angles

Time: 45 mins

### SECTION-A

$$1 \times 6 = 6$$

1. Find the angles which is a complement of itself?
2. The sum of all angles around a point is .....
3. A line segment has..... end points.
4. How many pairs of supplementary angles can be definitely be made, when a transversal cuts two parallel line?
5. What happens to the measurement of an angle after the extension of its arms?
6. What do we call an angle whose measurement is exactly equal to  $0^\circ$ ?

### SECTION-B

$$5 \times 2 = 10$$

1. Two complement angles are such that the measure of one is twice the measure of the other. Find the angles?
2. Find the supplement of the angles:
  - a.  $135^\circ$
  - b.  $39^\circ$
  - c.  $87^\circ$
  - d.  $112^\circ$
3. If the angles  $(4x + 4)^\circ$ ,  $(6x - 4)^\circ$  are the supplementary angles, find the value of x?
4. Find the angle which is equal to its half supplement?
5. If 20% of an angle is the supplement of  $60^\circ$ , then the angle is

### SECTION-C

$$4 \times 3 = 12$$

1. An angle is  $30^\circ$  less than two times its supplement. Find the angles?
2. If OP a ray standing on a line OR such that greater than  $\angle POQ = \angle POR$ , what is the measure of  $\angle POQ$ ?
3. If the angles of a triangle are  $2x, 2x, 5x$ . Then find the largest angle of the triangle?
4. An exterior angle of a triangle measure  $110^\circ$  and its interior opposite angles are in the ratio 2:3. Find the angles of the triangles?

#### SECTION-D

$$3 \times 4 = 12$$

1. Define the following:
  - a. Adjacent angles
  - b. Supplementary angles
  - c. Complementary angles
  - d. Linear pair of angles
  - e. Vertically opposite angle
2. Two cars are moving in the north direction on different lanes, if the speed of cars is 20 km/hr and 15km/hr then after how many hours both cars meet?
3. A. measure of two complementary angles are the two consecutive even integers. Find the angles?  
B. two angles are making a linear pair if one of them is one third of the other. Find the angles?