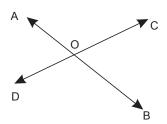
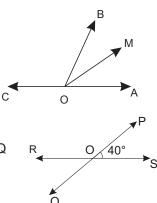
Worksheet

- 1. Choose the correct answer.
 - a. Two angles are supplementary to each other. If one of them measures 70°, then the measure of other angle is
 - i. 20° ii. 80° iii. 110° iv. 50°
 - b. A bicycle wheel has 36 spokes. Find the angle between the adjacent spokes.
 - i. 10° ii. 15° iii. 12° iv. 18°
 - c. $\angle P$ and $\angle Q$ form a linear pair. If one is reduced by 15°, then the other should be
 - i. increased by 15° ii. increased by 30°
 - iii. decreased by 15° iv. decreased by 30°
- 2. State whether true or false.
 - a. The measure of reflex angle of 30° is 230°.
 - b. The angle which is one-fifth of its supplement is 30° .
 - c. In the given figure, if measure of $\angle BOC$ is 55°, then the measure of $\angle AOC$ is also 55°.
 - d. If two angles are supplementary, they must always be in a linear pair.



- e. If the measure of an angle is 89.98°, it is an acute angle.
- 3. Two angles are in the ratio 2 : 3. If they form a linear pair, find their measures.
- 4. If an angle is twice its supplement angle, then what are their measures?
- 5. In the given figure, the measure of ∠AOB is equal to one-third of the straight angle ∠AOC. If OM is the bisector of ∠AOB, what are the measures of the angles ∠AOM and ∠BOM?



- 6. In the given figure, find the measures of $\angle POR$, $\angle ROQ$ and $\angle QOS$.
- 7. At 4 o'clock, the arms of a clock make an obtuse angle and a reflex angle. Find the measure of each of these angles.
- 8. What is the complement of 86°?

76

- 9. For what value of x is the sum of $(2x + 3)^{\circ}$ and $(7x + 6)^{\circ}$ a complementary angle? Also, find the angles.
- 10. Draw an angle measuring 44° using protractor. What type of angle is that?
- 11. If $\angle A = 25^{\circ}$ and $\angle B = 32^{\circ}$, find $\angle A + \angle B$.

Answers to Worksheet

- 1. a. iii b. i c. i
- 2. a. False b. True c. False d. False

6. 140°, 40°, 140°

- 3. 72°, 108° 4. 60°, 120°
- 7 4
 - 7. 120°, 240°

e. True

- 8. 4° 9. $x = 9, 21^{\circ}, 69^{\circ}$
- 10. acute angle 11. 57°

5. 30°, 30°