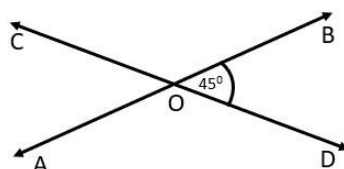


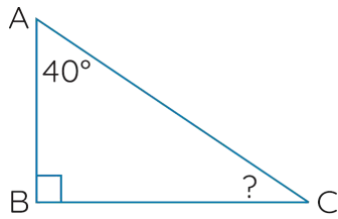
INTERNATIONAL INDIAN SCHOOL BURAIDAH
Worksheet for the Academic Year 2024-25
CLASS: 7 / SUBJECT: Maths
LESSON : 5 Lines and Angles

- Write the complements of the following angles.
 - 20°
 - 60°
 - 5°
 - 17°
- Write the supplements of the following angles.
 - 9°
 - 30°
 - 135°
 - 178°
- One of the angles forming a linear pair is a right angle. What will be the other angle?
 - Obtuse
 - Acute
 - Right Angle
 - None of these
- In the below diagram two straight lines AB and CD intersect at a point O. If $\angle BOD = 45^\circ$, then find the measure of each other angles.

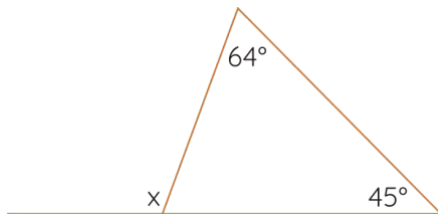


- $\angle BOC = 125^\circ, \angle AOC = 45^\circ, \angle AOD = 135^\circ$
 - $\angle BOC = 135^\circ, \angle AOC = 45^\circ, \angle AOD = 135^\circ$
 - $\angle BOC = 125^\circ, \angle AOC = 55^\circ, \angle AOD = 135^\circ$
 - $\angle BOC = 135^\circ, \angle AOC = 55^\circ, \angle AOD = 135^\circ$
- One of the angles forming a linear pair is an acute angle. What will be the other angle?
 - Obtuse
 - Acute
 - Right Angle
 - None of these
 - The sum of an angle and one third of its supplementary angle is 90° . What is the measure of the angle?
 - 120°
 - 60°
 - 135°
 - 45°
 - An angle is thrice of its supplement, what is the measure of the angle?
 - 120°
 - 60°
 - 135°
 - 45°
 - Two complementary angles are in the ratio 2 : 3. What is the measure of the small angle?
 - 36°
 - 60°
 - 46°
 - 45°
 - The sum of an angle and half of its complimentary angle is 75° . Find the measure of the angle.
 - 120°
 - 60°
 - 135°
 - 45°
 - Two supplementary angles are in 2 : 7 ratio, find the larger angle.
 - 120°
 - 60°
 - 140°
 - 40°

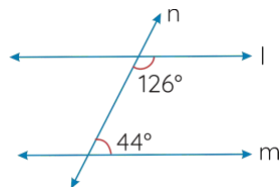
11. In the figure given below find the value of missing angle.



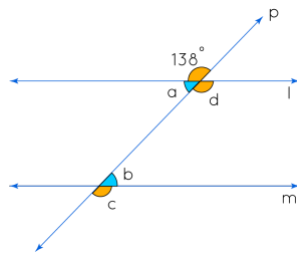
12. Work out angle x in the given figure.



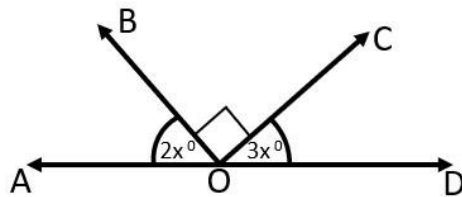
13. Line l is parallel to line m. P is a transversal. Find out the missing angles.



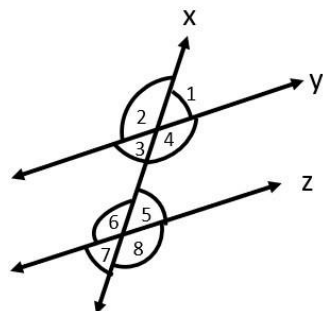
14. Check whether the given lines are parallel or not.



15. If $\angle AOD$ is 180° , then find the values of 'x'.



16. Which option is true for the below diagram.



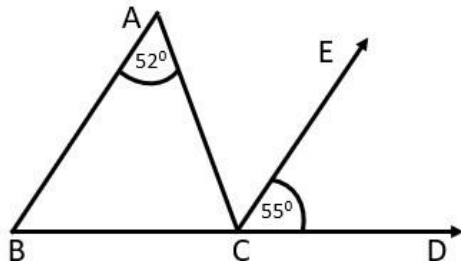
a) $\angle 1 = \angle 8$ & $\angle 2 = \angle 7$

b) $\angle 6 = \angle 7$ & $\angle 5 = \angle 8$

c) $\angle 3 = \angle 6$ & $\angle 4 = \angle 5$

d) $\angle 2 = \angle 6$ & $\angle 1 = \angle 5$

17. In the below diagram $AB \parallel CE$, $\angle BAC = 52^\circ$ and $\angle ECD = 55^\circ$. Find the value of $\angle ACB$.



a) 52°

b) 45°

c) 62°

d) 73°

ANSWERS

1. i) 70° ii) 30° iii) 85° iv) 73°

2. i) 171° ii) 150° iii) 45° iv) 2°

3. c 4. D 5. Obtuse

6. $x^\circ + \frac{1}{3}(180^\circ - x^\circ) = 90^\circ$ $x = 45^\circ$

7. $x = 3(180^\circ - x)$ $x = 135^\circ$

8. $2x + 3x = 90^\circ$ $x = 18^\circ, 2x = 36^\circ$

9. $x + \frac{1}{2}(90^\circ - x) = 75^\circ$ $x = 60^\circ$

10. $2x + 7x = 180^\circ$ $x = 20^\circ, 7x = 140^\circ$

11. 50°

12. 109°

15. $x = 18^\circ$

16. d

17. d