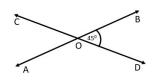
Lines & Angles Worksheet – 3

1. In the below diagram two straight lines AB and CD intersect at a point O. If \angle BOD = 45°, then find the measure of each other angles.



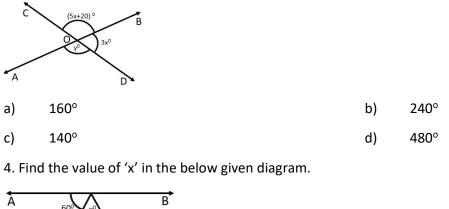
a) $\angle BOC = 125^{\circ}, \angle AOC = 45^{\circ}, \angle AOD = 135^{\circ}$

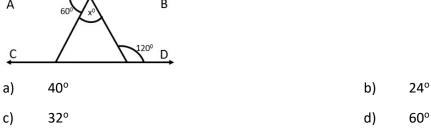
c)
$$\angle BOC = 125^{\circ}, \angle AOC = 55^{\circ}, \angle AOD = 135^{\circ}$$

2. Find the value of 'x' in the below given diagram.



3. AB and CD are two straight lines intersecting on point O as shown in the below diagram. Find the value of x + y.





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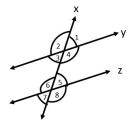
5. Find the value of 'x' and 'y' in the below given diagram.



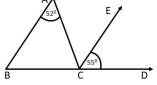
6. In the below given diagram $\angle B = 70^{\circ}$, $\angle C = 50^{\circ}$ and BC || PAQ. Find the value of 'x' and 'y'.



7. In the below given diagram, lines y and z are parallel to each other. If $\angle 1$ and $\angle 2$ are in the ratio 5 : 7, then find the measures of all the angles.



a) $\angle 1 = 75^{\circ}, \angle 2 = 100^{\circ}, \angle 3 = 80^{\circ}, \angle 4 = 100^{\circ}, \angle 5 = 75^{\circ}, \angle 6 = 100^{\circ}, \angle 7 = 80^{\circ}, \angle 8 = 100^{\circ}$ b) $\angle 1 = 75^{\circ}, \angle 2 = 105^{\circ}, \angle 3 = 75^{\circ}, \angle 4 = 105^{\circ}, \angle 5 = 75^{\circ}, \angle 6 = 105^{\circ}, \angle 7 = 75^{\circ}, \angle 8 = 105^{\circ}$ c) $\angle 1 = 105^{\circ}, \angle 2 = 75^{\circ}, \angle 3 = 105^{\circ}, \angle 4 = 75^{\circ}, \angle 5 = 105^{\circ}, \angle 6 = 75^{\circ}, \angle 7 = 105^{\circ}, \angle 8 = 75^{\circ}$ d) $\angle 1 = 80^{\circ}, \angle 2 = 100^{\circ}, \angle 3 = 80^{\circ}, \angle 4 = 100^{\circ}, \angle 5 = 80^{\circ}, \angle 6 = 100^{\circ}, \angle 7 = 80^{\circ}, \angle 8 = 100^{\circ}$ 8. In the below diagram AB || CE, \angle BAC = 52° and \angle ECD = 55°. Find the value of \angle ACB.

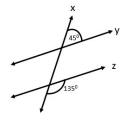


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a)	52°	b)	45°
c)	62°	d)	73°

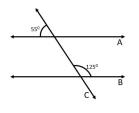
9. In the below given diagram Y and Z are two parallel lines. Mark True / False.



a) True

b) False

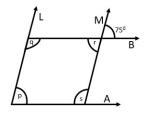
10. In the below given diagram A and B are two parallel lines. Mark True / False.



a) True

b) False

11. In the below given diagram L ||M and A || B. Find the value of p, q, r and s.



a) p = 75°, q = 105°, r = 75°, s = 100°

b) p = 65°, q = 105°, r = 65°, s = 105°

d) p = 80°, q = 100°, r = 80°, s = 100°

12. Pair of vertically opposite angles are always supplementary. Mark True / False.

13. Two adjacent angles always form a linear pair. Mark True / False.

a) True b) False

14. If two lines are cut by a transversal, then each pair of corresponding angles are not equal. Mark True / False.

a) True b) False

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15. Corresponding angles are opposite side of the transversal. Mark True / False.

a) True b) False

16. Alternate interior angles are on the same side of the transversal. Mark True / False.

a) True b) False

17. If two adjacent angles are supplementary, then they form a linear pair. Mark True / False.

a) True b) False

18. Two lines in a plain which never meet are known as ______.

a)	Transversal	b)	Linear
c)	Parallel	d)	Adjacent

19. If a transversal cuts two parallel lines, then each pair of corresponding angles are equal. Mark True / False.

a) True b) False

20. If a transversal cuts two parallel lines, then each pair of co-interior angles are not supplementary. Mark True / False.

a) True

b) False