

Q1.Tick the correct answer:

In the figure given below, the lines *x*, *y* and *z* are:



- a. Concurrent lines
- b. Intersecting lines
- c. Perpendicular lines

Q2. If lines x, y and z are such that:

x || y and y || z
then is it necessary that, x || y || z?
Answer:

Q3. Fill in the blanks:

- a. Three or more lines passing through the same point are ______ lines.
- b. Three or more points lying in a plane are _____ if they all lie on the same line.
- c. The initial point of ray is _____.
- d. _____ lines can pass through a given point.

Q4. In the given figure, lines m || n. Observe the figure carefully and tick the correct answers for the following questions:



- ii. $\angle 2$ and $\angle 8$ Pair of corresponding angles : i. $\angle 1$ and $\angle 5$ a. ii. $\angle 3$ and $\angle 5$ Pair of alternate interior angles b. : i. $\angle 2$ and $\angle 6$ Pair of alternate exterior angles : i. $\angle 1$ and $\angle 5$ ii. $\angle 1$ and $\angle 7$ C.
- d. Pair of co-interior angles
- : i. $\angle 3$ and $\angle 4$ ii. $\angle 3$ and $\angle 6$

Q5. Match the following:

15° more than half of a right angle	270°
$\frac{1}{4}$ of a straight angle	360°
Four right angles	60°
Reflex angle formed by minimum number of right angles	45°

Q6. Two angles are complementary and one angle is 30° more than twice the other angle. Find the measure of the angles.

Answer:

Q7. \angle BOC and \angle AOB are supplementary. If the measure of \angle AOB is 45° 36' 57", find the other angle.

Answer:

Q8. In the given figure, $\angle AOB$ is two-third of a right angle. \overrightarrow{OC} is the angle bisector of $\angle AOB$. Find the measure of all the angles.



- b. ∠BOC = _____
- c. ∠COA = _____
- d. ∠DOB = _____
- e. ∠DOE = _____
- f. ∠AOE = _____
- Q9. If AB || CD, find the value of \angle OAB and \angle OBA in the following figure:



Q10. In the given figure, lines m || n. As lines x | | y?





Answers

- **1.** (b)
- **2.** Yes
- 3. a. concurrent; b. collinear; c. point A; d. infinite
- 4. a. (i); b. (ii); c. (ii); d. (ii)
- 5.

15° more than half of a right angle	60°
$\frac{1}{4}$ of a straight angle	45°
Four right angles	360°
Reflex angle formed by minimum number of right angles	270°

- **6.** 20°, 70°
- **7.** 134°23'3''
- **8.** a. 60°
 - b. 30°
 - c. 30°
 - d. 150°
 - e. 30°
 - f. 120°
- **9.** ∠OAB =61°; ∠OBA=69°
- **10.** Yes