

Study the following information carefully to answer these questions.

All the streets of a city are either perpendicular or parallel to one another. The streets are all straight. Streets N, O, P, Q and R are parallel to one another. Streets S, T, U, V, W, X and Y are parallel to one another.

- i. Street N is 1 km east of Street O.
 - ii. Street O is $\frac{1}{2}$ km west of Street P.
 - iii. Street Q is 1 km west of Street R.
 - iv. Street S is $\frac{1}{2}$ km south of Street T.
 - v. Street U is 1 km north of Street V.
 - vi. Street W is $\frac{1}{2}$ km north of Street X.
 - vii. Street W is 1 km south of Street Y.
- 1) If W is parallel to U and W is $\frac{1}{2}$ km south of V and 1 km north of T, then which two streets would be $1\frac{1}{2}$ km apart?
 - a) U and W
 - b) V and S
 - c) V and T
 - d) W and V
 - 2) Which of the following possibilities would make two streets coincide?
 - a) X is $\frac{1}{2}$ km north of U
 - b) P is 1 km west of Q
 - c) Q is $\frac{1}{2}$ km east of N
 - d) R is $\frac{1}{2}$ km east of O
 - 3) If street R is between O and P, then distance between N and Q is:
 - a) $\frac{1}{2}$ km
 - b) 1 km
 - c) 1.5 km
 - d) 1.5–2 km
 - 4) If R is between O and P, then which of the following is false?
 - a) Q is 1.75 km west of N
 - b) P is less than 1 km from Q
 - c) R is less than 1 km from N
 - d) Q is less than 1 km from O

- 5) Which of the following is necessarily true (given the basic clues)?
 - a) R and O intersect
 - b) Q is 2 km west of O
 - c) Q is at least 2 km west of N
 - d) Y is 1.5 km north of X
- 6) If Southeast becomes east and Northwest becomes west and all the other directions are changed in the same direction. Then what will be the direction for north?
 - a) Northwest
 - b) Southeast
 - c) Southwest
 - d) Northeast
- 7) If Northwest becomes south and southwest becomes east and all the other directions change in the similar manner, then what will be the direction for north?
 - a) Southeast
 - b) Northeast
 - c) North
 - d) None of these
- 8) A direction pole at a crossing, due to an accident turns in such a manner that now east pointer is showing southwest. A traveler went to wrong direction thinking that he was travelling south. In what direction was he actually traveling?
 - a) South west
 - b) West north
 - c) North east
 - d) East south
- 9) I am facing west. I turn 45° in the clockwise direction & then 180° in same direction & then 270° anticlockwise. Which direction I am facing now?
 - a) West
 - b) South
 - c) South - West
 - d) North – West

10) I am facing east. I turn 100° in the clockwise direction & then 145° in the anticlockwise direction. Which direction I am facing now?

- a) East
- b) North
- c) South – West
- d) North – East

ANSWERS:

- 1 – A
- 2 – D
- 3 – D
- 4 – B
- 5 – B
- 6 – A
- 7 – D
- 8 – C
- 9 – C
- 10 – D