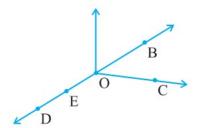
CLASS NOTES-ANSWERS

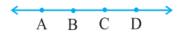
EXERCISE 4.1

- 1. Use the figure to name:
 - (a) Five points (b) A line (c) Four rays (d) Five line segments



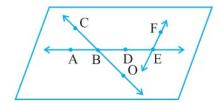
Answer:

- (a) The five points are O, B, C, D, and E.
- (b) The Line is BD.
- (c) The four rays are OC, OB, OE, and OD.
- (d) Five line segments are OE, ED, OD, OB, and EB.
- 2. Name the line given in all possible (twelve) ways, choosing only two letters at a time from the four given.



Answer: The line can be named as, AB, AC, AD, BA, BC, BD, CA, CB, CD, DA, DB, and DC.

- 3. Use the figure to name:
 - (a) Line containing point E.
- (b) Line passing through A.
- (c) Line on which O lies
- (d) Two pairs of intersecting lines.

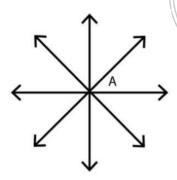


Answer:

- (a) The line containing point E is EF.
- (b) The line passing through A is AE.
- (c) The line on which O lies is CO.
- (d) The two pairs of intersecting lines are CO, AE, and EF, AE.
- 4. How many lines can pass through (a) one given point? (b) two given points?

Answer:

(a) An Infinite number of lines can pass through one point.



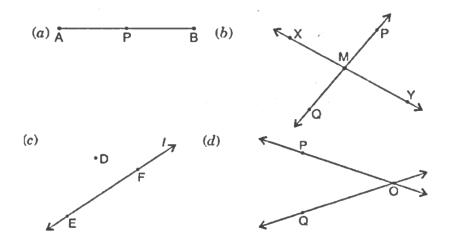
(b) Only one unique line passes through two given points.



- 5. Draw a rough figure and label suitably in each of the following cases:
 - (a) Point P lies on AB.
 - (b) XY and PQ intersect at M.
 - (c) Line I contains E and F but not D.

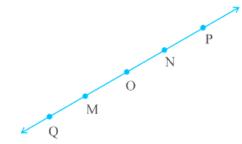
(d) OP and OQ meet at O.

Answer:



- 6. Consider the following figure of line MN. Say whether following statements are true or false in context of the given figure.
 - (a) Q, M, O, N, P are points on the line MN.
 - (b) M, O, N are points on a line segment MN.
 - (c) M and N are end points of line segment MN.
 - (d) O and N are end points of line segment OP.
 - (e) M is one of the end points of line segment QO.
 - (f) M is point on ray OP.
 - (g) Ray OP is different from ray QP.
 - (h) Ray OP is same as ray OM.
 - (i) Ray OM is not opposite to ray OP.
 - (j) O is not an initial point of OP.
 - (k) N is the initial point of NP and NM.





Answer:

- (a) Q, M, O, N, P are points on the line MN is a true statement.
- (b) M, O, N are points on a line segment MN is a true statement.
- (c) M and N are endpoints of line segment MN is a true statement.
- (d) O and N are endpoints of line segment OP is a false statement.
- (e) M is one of the endpoints of line segment QO is a false statement.
- (f) M is a point on ray OP is a false statement.
- (g) Ray OP is different from ray QP is a true statement.
- (h) Ray OP is different from ray OM is a false statement.
- (i) Ray OP is not opposite to ray OM is a false statement.
- (j) O is not an initial point of OP is a false statement.
- (k) N is the initial point of NP and NM is a true statement.