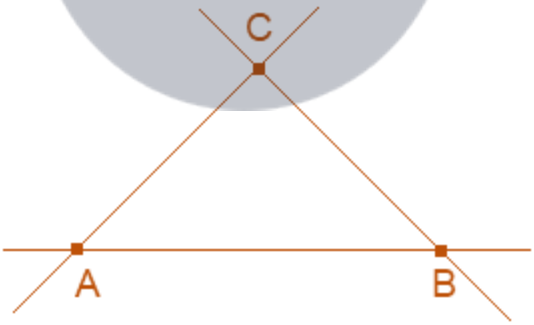
1. How many lines can be drawn through a given point?
Solution:-
Through a given point infinite number of lines can be drawn.

2. How many lines can be drawn through two distinct given points?
Solution:-
Only one line can be drawn through two distinct given points.

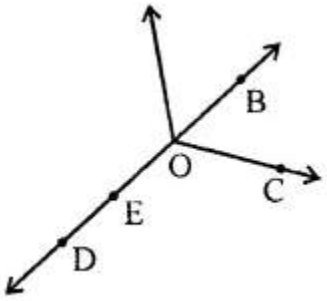
3. How many lines can be drawn through three collinear points?
Solution:-
Only one line can be drawn through three collinear points.

4. Mark three non-collinear points A, B and C in your note-book. Draw lines through these points taking two at a time and name these lines. How many such different lines can be drawn?
Solution:-
As per the conditions given in the question,



The lines are AB, AC and BC.

5. Use the figure to name :
(i) Five point
(ii) Aline
(iii) Four rays
(iv) Five line segments



Solution:-

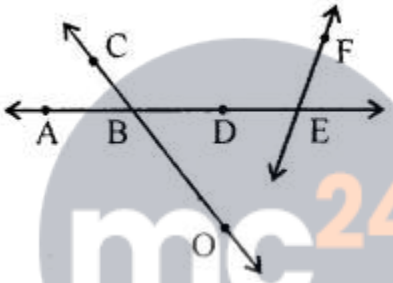
(i) Five point = B, C, D, E and O

(ii) Aline = $\overleftrightarrow{DE}, \overleftrightarrow{DO}, \overleftrightarrow{DB}, \overleftrightarrow{EO}$

(iii) Four rays = $\overrightarrow{DE}, \overrightarrow{DB}, \overrightarrow{OB}, \overrightarrow{OE}, \overrightarrow{EB}$

(iv) Five line segments = $\overline{DE}, \overline{DO}, \overline{EO}, \overline{OB}, \overline{EB}$

6. Use the figure to name:



(i) Line containing point E.

(ii) Line passing through A.

(iii) Line on which point O lies.

(iv) Two pairs of intersecting line

Solution:-

(i) Line containing point E is $\overleftrightarrow{AE}$

(ii) Line passing through A $\overleftrightarrow{AE}$,

(iii) Line on which point O lies, $\overleftrightarrow{CO}$ *or* $\overleftrightarrow{OC}$

(iv) Two pairs of intersecting line $\overleftrightarrow{CO}, \overleftrightarrow{AE}$; $\overleftrightarrow{AE}, \overleftrightarrow{EF}$