

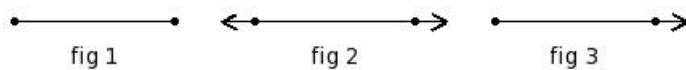
EduSahara™ Learning Center Assignment**Grade : Class VII, CBSE****Chapter : Lines and Angles****Name : Line Concepts****Licensed To : Teachers and Students for non-commercial use**

1. Which of the following figures represent a line?



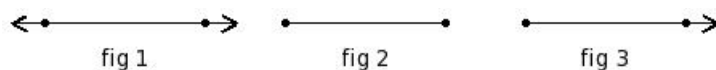
(i) fig 1 (ii) fig 3 (iii) fig 2

2. Which of the following figures represent a ray?



(i) fig 2 (ii) fig 3 (iii) fig 1

3. Which of the following figures represent a line segment?



(i) fig 2 (ii) fig 1 (iii) fig 3

4. Points lying on the same line are called

- (i) linear points (ii) collinear points (iii) concurrent points
(iv) non-linear points (v) semi-linear points
-

5. Identify the figure below



(i) triangle (ii) line (iii) nonagon (iv) circle (v) hexagon

6. Multiple lines drawn on a plane are called

- (i) perpendicular lines (ii) parallel lines (iii) concurrent lines
(iv) intersecting lines (v) coplanar lines
-

7. Multiple lines which do not meet each other are called

- (i) intersecting lines (ii) perpendicular lines (iii) parallel lines
(iv) concurrent lines (v) coplanar lines
-

8. Multiple lines which pass through the same point are called

- (i) intersecting lines (ii) concurrent lines (iii) parallel lines
(iv) coplanar lines (v) perpendicular lines
-

9. A line that intersects two lines at two different points is called

- (i) concurrent lines (ii) perpendicular lines (iii) transversal
(iv) coplanar lines (v) parallel lines
-

10. Two lines meeting at a point and making an angle of 90° at the meeting point are called

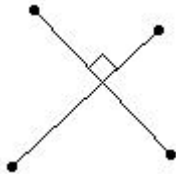
- (i) intersecting lines (ii) parallel lines (iii) concurrent lines
(iv) perpendicular lines (v) coplanar lines
-

11. The following lines represent



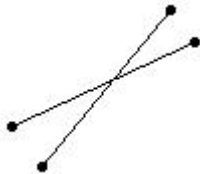
- (i) intersecting lines (ii) parallel lines (iii) coplanar lines
(iv) perpendicular lines (v) concurrent lines
-

12. The following lines represent



- (i) parallel lines (ii) concurrent lines (iii) coplanar lines
(iv) intersecting lines (v) perpendicular lines
-

13. The following lines represent



- (i) perpendicular lines (ii) concurrent lines (iii) coplanar lines
(iv) parallel lines (v) intersecting lines
-

14. Which of the following are true?

- a) The length of a line segment cannot be determined
 - b) A ray has an infinite number of points on it
 - c) A line has an infinite number of points on it
 - d) Capital letters are used to represent points
 - e) Small letters are used to represent lines
- (i) {b,c,d,e} (ii) {a,b} (iii) {a,c} (iv) {a,e,b} (v) {a,d}
-

15. Which of the following are true?

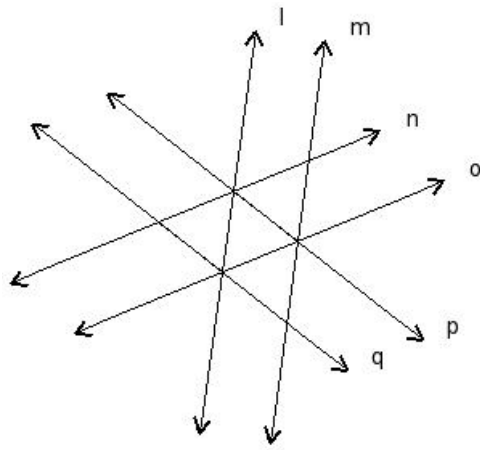
- a) Only one straight line can be drawn between any two points
 - b) If two lines have no common point, then the lines are parallel
 - c) If two lines have infinite common points, then the two lines are concurrent
 - d) If a line cuts another line at more than one point, then one of the line is curved
 - e) A straight line meets another straight line at atmost one point
- (i) {c,b} (ii) {c,e,a} (iii) {a,b,d,e} (iv) {c,d} (v) {c,a}
-

16. Which of the following are true?

- a) If two lines are parallel to the same line, then they are parallel to each other
 - b) If $s \parallel t$ and $t \parallel u$, then $s \parallel u$
 - c) If $s \perp t$ and $t \perp u$, then $s \perp u$
 - d) If $s \perp t$ and $s \perp u$, then $t \perp u$
 - e) If two lines are parallel to the same line, then they are perpendicular to each other
- (i) {d,b,a} (ii) {e,c,a} (iii) {a,b} (iv) {c,a} (v) {d,b}
-

17. In the given figure, l, m, n, o, p, q are lines in a plane. By looking at the figure, which of the following are true?

- a) $l \parallel o$
- b) l is the transversal of n & p
- c) o is the transversal of l & m
- d) p is the transversal of n & o
- e) q is the transversal of n & l
- f) $l \parallel m$



- (i) {b,d} (ii) {a,b,e} (iii) {a,c} (iv) {a,f,c} (v) {c,d,e,f}

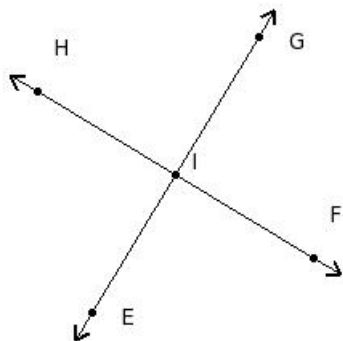
18. Which of the following are true with respect to lines g, h, i, j where $g \parallel h, h \perp i, i \perp j$?

- a) $h \parallel j$
 b) $g \parallel j$
 c) $g \parallel i$
 d) $g \perp j$
 e) $i \parallel j$

- (i) {a,b} (ii) {d,b} (iii) {e,c,a} (iv) {d,b,a} (v) {c,a}

19. Which of the following points are collinear?

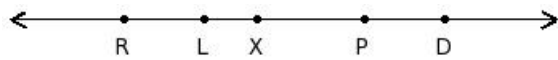
- a) I, H, G
 b) G, I, H
 c) E, I, G
 d) F, I, G
 e) H, I, F



- (i) {d,a,c} (ii) {b,e} (iii) {a,c} (iv) {c,e} (v) {b,e,c}

20. Consider the following figure \overleftrightarrow{RD} .
State which of the following statements are true?

- a) R, L, X, D, P are points on the line \overleftrightarrow{RD}
b) R, D are end points of line segment \overline{LP}
c) R, D are points on the line segment \overline{LP}
d) R, D are end points of line \overleftrightarrow{RD}
e) X, P are end points of line segment \overline{PR}



- (i) {c,d,a} (ii) {c,d} (iii) {b,a} (iv) {a,d} (v) {e,b,a}

21. The representation \overleftrightarrow{IJ} indicates
(i) line (ii) line segment (iii) angle (iv) ray (v) arc

22. The representation \overline{EF} indicates
(i) angle (ii) line (iii) line segment (iv) ray (v) arc

23. The representation \overrightarrow{MN} indicates
(i) line (ii) arc (iii) angle (iv) ray (v) line segment

24. In the figure below, if $GH = 13.80$ cm and $HI = 5.40$ cm, find $GI = ?$



- (i) 21.20 cm (ii) 17.20 cm (iii) 19.20 cm (iv) 20.20 cm (v) 18.20 cm

Assignment Key

- 1) (iii)
- 2) (ii)
- 3) (i)
- 4) (ii)
- 5) (ii)
- 6) (v)
- 7) (iii)
- 8) (ii)
- 9) (iii)
- 10) (iv)
- 11) (ii)
- 12) (v)
- 13) (v)
- 14) (i)
- 15) (iii)
- 16) (iii)
- 17) (v)
- 18) (i)
- 19) (iv)
- 20) (iv)
- 21) (i)
- 22) (iii)
- 23) (iv)
- 24) (iii)