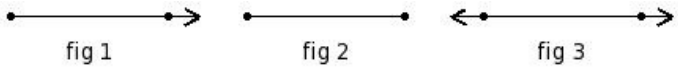
EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

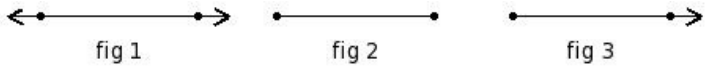
Grade : SSC Grade IX

1. Which of the following figures represent a line?



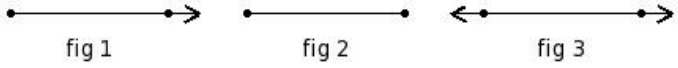
(i) fig 3 (ii) fig 2 (iii) fig 1

2. Which of the following figures represent a ray?



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

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



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

4. Points lying on the same line are called

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

5. Every simple closed curve divides a plane into how many sets of points?

(i) 4 (ii) 6 (iii) 2 (iv) 1 (v) 3

6. Identify the figure below

(i) hexagon (ii) line (iii) triangle (iv) octagon (v) angle

7. Multiple lines drawn on a plane are called

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

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

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

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

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

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

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

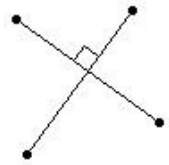
11. Two lines meeting at a point and making an angle of 90° at the meeting point are called

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

12. The following lines represent

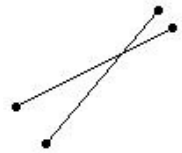
(i) intersecting lines (ii) parallel lines (iii) perpendicular lines (iv) coplanar lines (v) concurrent lines

13. The following lines represent



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

14. The following lines represent



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

15. The representation $\overleftrightarrow{EF}$ indicates

(i) line segment (ii) angle (iii) line (iv) arc (v) ray

16. The representation $\overline{BC}$ indicates

(i) arc (ii) ray (iii) angle (iv) line (v) line segment

17. The representation $\overrightarrow{BC}$ indicates

(i) line (ii) line segment (iii) angle (iv) arc (v) ray

18. Which of the following are true?

a) A ray has an infinite number of points on it
b) The length of a line segment cannot be determined
c) Capital letters are used to represent points
d) A line has an infinite number of points on it
e) Small letters are used to represent lines

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

19. Which of the following are true?

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

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

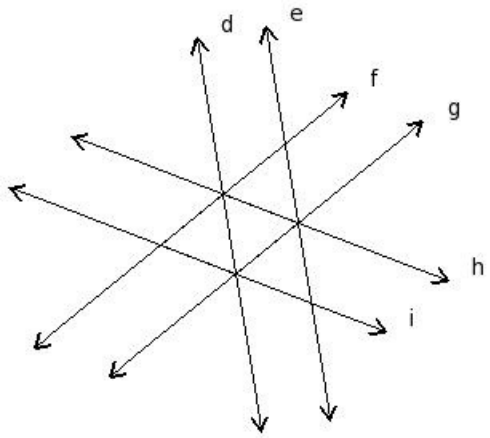
20. Which of the following are true?

a) If two lines are parallel to the same line, then they are parallel to each other
b) If two lines are parallel to the same line, then they are perpendicular to each other
c) If $m \perp n$ and $n \perp o$, then $m \perp o$
d) If $m \perp n$ and $m \perp o$, then $n \perp o$
e) If $m \parallel n$ and $n \parallel o$, then $m \parallel o$

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

21. In the given figure, d , e , f , g , h , i are lines in a plane. By looking at the figure, which of the following are true?

a) i is the transversal of f & d
b) h is the transversal of f & g
c) $d \parallel g$
d) g is the transversal of d & e
e) $d \parallel e$
f) d is the transversal of f & h



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

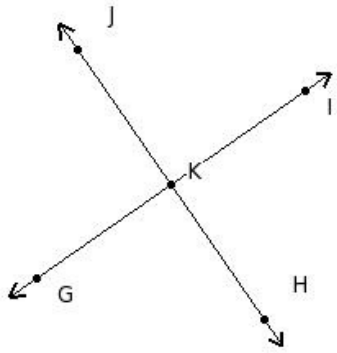
22. Which of the following are true with respect to lines b , c , d , e where $b \parallel c$, $c \perp d$, $d \perp e$?

a) $b \perp e$
b) $d \parallel e$
c) $b \parallel e$
d) $c \parallel e$
e) $b \parallel d$

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

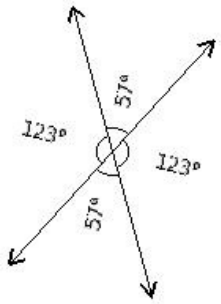
23. Which of the following points are collinear?

a) H, K, I
b) K, J, I
c) G, K, I
d) J, K, H
e) I, K, J

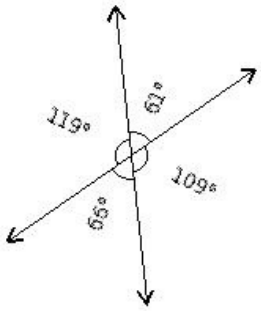


(i) {e,a,c} (ii) {b,d,c} (iii) {a,c} (iv) {b,d} (v) {c,d}

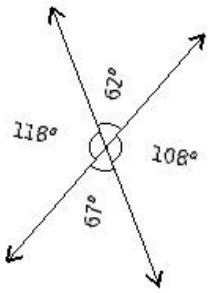
24. Which of the given figures is correct?



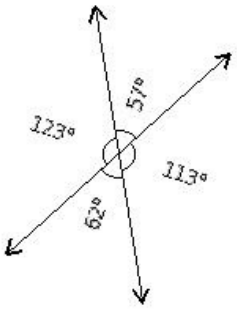
I



II



III



IV

(i) II (ii) IV (iii) I (iv) III

25. Consider the following figure $\overleftrightarrow{NR}$. State which of the following statements are true?

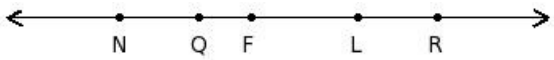
a) N,R are points on the line segment $\overline{QL}$

b) N,Q,F,R,L are points on the line $\overleftrightarrow{NR}$

c) F,L are end points of line segment $\overline{LN}$

d) N,R are end points of line segment $\overline{NR}$

e) N,R are end points of line segment $\overline{QL}$



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

26. In the figure below, if $DE = 13.80$ cm and $EF = 5.10$ cm, find $DF = ?$

(i) 18.90 cm (ii) 20.90 cm (iii) 16.90 cm (iv) 19.90 cm (v) 17.90 cm

Assignment Key

1) (i)	2) (i)	3) (i)	4) (i)	5) (v)	6) (ii)
7) (i)	8) (iv)	9) (iv)	10) (iv)	11) (iii)	12) (ii)
13) (i)	14) (ii)	15) (iii)	16) (v)	17) (v)	18) (iv)
19) (iv)	20) (iii)	21) (ii)	22) (ii)	23) (v)	24) (iii)
25) (iii)	26) (i)				