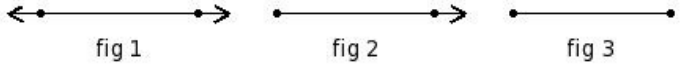
EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

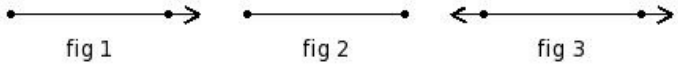
Grade : SSC Grade IX

1. Which of the following figures represent a line?



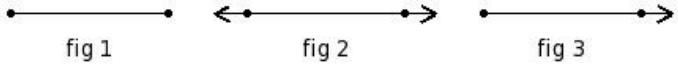
(i) fig 2 (ii) fig 1 (iii) fig 3

2. Which of the following figures represent a ray?



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

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



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

4. Points lying on the same line are called

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

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

(i) 3 (ii) 2 (iii) 4 (iv) 0 (v) 5

6. Identify the figure below

(i) nonagon (ii) hexagon (iii) line (iv) pentagon (v) decagon

7. Multiple lines drawn on a plane are called

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

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

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

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

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

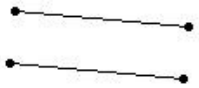
10. A line that intersects two lines at two different points is called

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

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

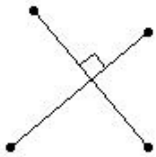
(i) intersecting lines (ii) coplanar lines (iii) parallel lines (iv) perpendicular lines (v) concurrent lines

12. The following lines represent



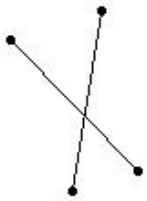
(i) parallel lines (ii) coplanar lines (iii) perpendicular lines (iv) concurrent lines (v) intersecting lines

13. The following lines represent



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

14. The following lines represent



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

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

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

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

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

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

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

18. 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) Capital letters are used to represent points
d) Small letters are used to represent lines
e) A line has an infinite number of points on it

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

19. Which of the following are true?

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

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

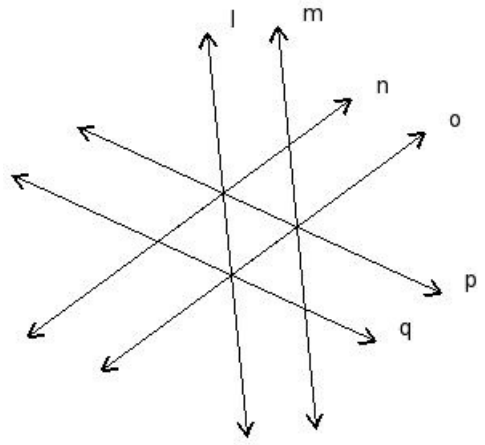
20. Which of the following are true?

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

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

21. 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) q is the transversal of n & l
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) $l \parallel o$
f) $l \parallel m$



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

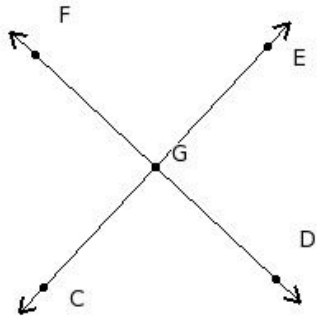
22. Which of the following are true with respect to lines n , o , p , q where $n \parallel o$, $o \perp p$, $p \perp q$?

a) $n \perp q$
b) $p \parallel q$
c) $n \parallel q$
d) $o \parallel q$
e) $n \parallel p$

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

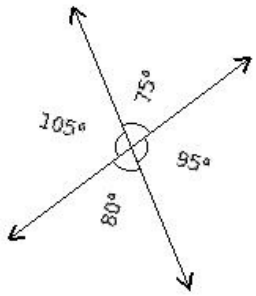
23. Which of the following points are collinear?

a) G,F,E
b) F,G,D
c) E,G,F
d) D,G,E
e) C,G,E

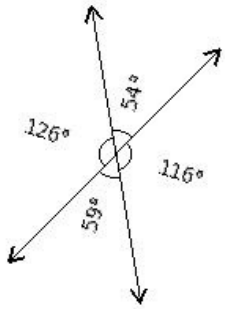


(i) {b,e} (ii) {a,b} (iii) {c,e} (iv) {c,e,b} (v) {d,a,b}

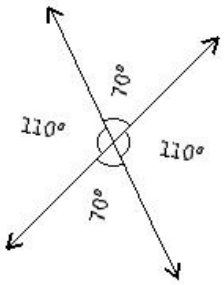
24. Which of the given figures is correct?



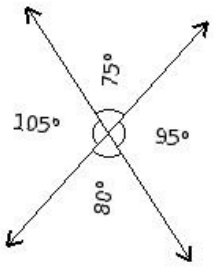
I



II



III



IV

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

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

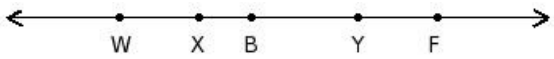
a) W,F are end points of line segment $\overline{XY}$

b) W,X,B,F,Y are points on the line $\overleftrightarrow{WF}$

c) W,F are end points of line segment $\overline{WF}$

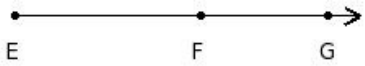
d) W,F are points on the line segment $\overline{XY}$

e) B,Y are end points of line segment $\overline{YW}$



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

26. In the figure below, if $EF = 11.40$ cm and $FG = 7.80$ cm, find $EG = ?$



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

Assignment Key

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