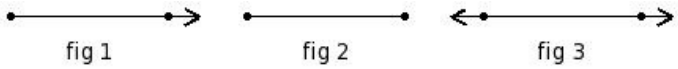
EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

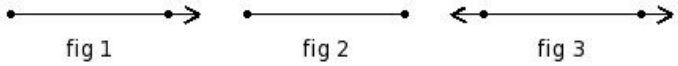
Grade : CBSE Grade VII

1. Which of the following figures represent a line?



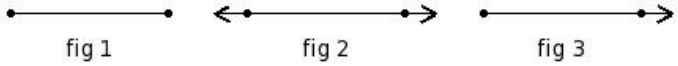
(i) fig 3 (ii) fig 2 (iii) fig 1

2. Which of the following figures represent a ray?



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

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



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

4. Points lying on the same line are called

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

5. Identify the figure below

(i) circle (ii) angle (iii) hexagon (iv) heptagon (v) line

6. Multiple lines drawn on a plane are called

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

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

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

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

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

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

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

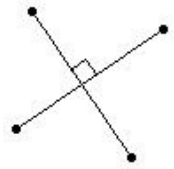
10. Two lines meeting at a point and making an angle of 90° at the meeting point are called

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

11. The following lines represent

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

12. The following lines represent



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

13. The following lines represent

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

14. Which of the following are true?

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

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

15. Which of the following are true?

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

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

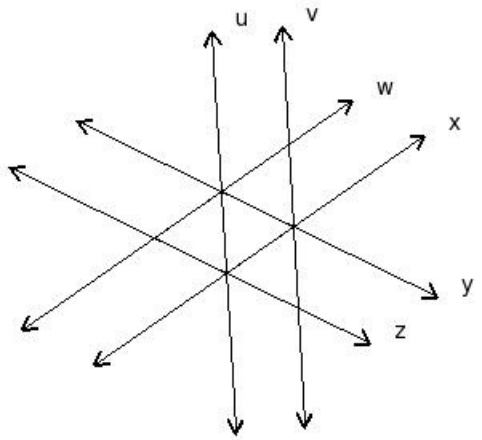
16. Which of the following are true?

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

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

17. In the given figure, u , v , w , x , y , z are lines in a plane. By looking at the figure, which of the following are true?

a) y is the transversal of w & x
b) u ∥ v
c) x is the transversal of u & v
d) u is the transversal of w & y
e) u ∥ x
f) z is the transversal of w & u



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

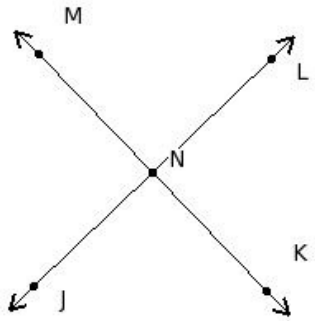
18. Which of the following are true with respect to lines i , j , k , l where i ∥ j , j ⊥ k , k ⊥ l?

a) k ∥ l
b) j ∥ l
c) i ∥ l
d) i ⊥ l
e) i ∥ k

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

19. Which of the following points are collinear?

a) J , N , L
b) K , N , L
c) L , N , M
d) M , N , K
e) N , M , L



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

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

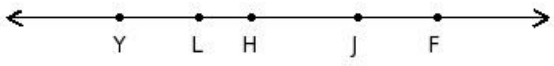
a) Y,F are end points of line segment
$\overline{LJ}$

b) Y,F are end points of line segment
$\overline{YF}$

c) Y,F are points on the line segment
$\overline{LJ}$

d) H,J are end points of line segment
$\overline{JY}$

e) Y,L,H,F,J are points on the line
$\overleftrightarrow{YF}$



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

21. The representation $\overleftrightarrow{BC}$ indicates

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

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

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

23. The representation $\overrightarrow{LM}$ indicates

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

24. In the figure below, if $DE = 5.30$ cm and $EF = 11.20$ cm, find $DF = ?$

(i) 17.50 cm (ii) 15.50 cm (iii) 14.50 cm (iv) 16.50 cm (v) 18.50 cm

Assignment Key

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