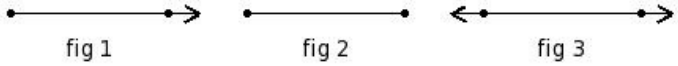
EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

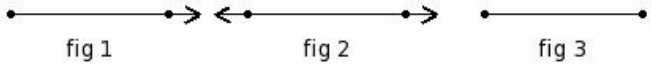
Grade : CBSE Grade VII

1. Which of the following figures represent a line?



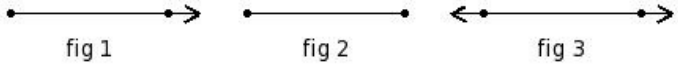
(i) fig 1 (ii) fig 3 (iii) fig 2

2. Which of the following figures represent a ray?



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

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

5. Identify the figure below

(i) hexagon (ii) pentagon (iii) quadrilateral (iv) line (v) triangle

6. Multiple lines drawn on a plane are called

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

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

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

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

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

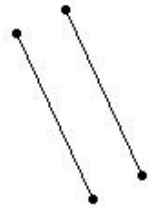
9. A line that intersects two lines at two different points is called

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

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

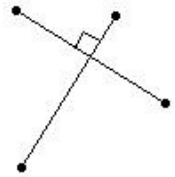
(i) intersecting lines (ii) concurrent lines (iii) perpendicular lines (iv) coplanar lines (v) parallel lines

11. The following lines represent



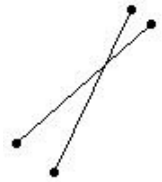
(i) coplanar lines (ii) perpendicular lines (iii) parallel lines (iv) intersecting lines (v) concurrent lines

12. The following lines represent



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

13. The following lines represent



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

14. Which of the following are true?

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

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

15. Which of the following are true?

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

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

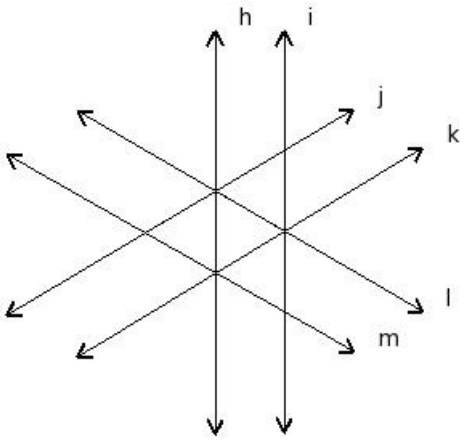
16. Which of the following are true?

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

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

17. In the given figure, h , i , j , k , l , m are lines in a plane. By looking at the figure, which of the following are true?

a) h ∥ k
b) k is the transversal of h & i
c) l is the transversal of j & k
d) m is the transversal of j & h
e) h ∥ i
f) h is the transversal of j & l



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

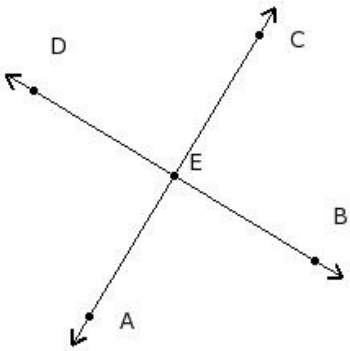
18. Which of the following are true with respect to lines e , f , g , h where e ∥ f , f ⊥ g , g ⊥ h?

a) e ∥ h
b) f ∥ h
c) e ∥ g
d) e ⊥ h
e) g ∥ h

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

19. Which of the following points are collinear?

a) C , E , D
b) D , E , B
c) E , D , C
d) A , E , C
e) B , E , C



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

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

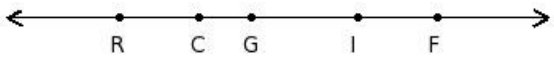
a) R,C,G,F,I are points on the line $\overleftrightarrow{RF}$

b) R,F are end points of line segment $\overline{RF}$

c) G,I are end points of line segment $\overline{IR}$

d) R,F are points on the line segment $\overline{CI}$

e) R,F are end points of line segment $\overline{CI}$



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

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

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

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

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

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

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

24. In the figure below, if $LM = 4.20$ cm and $MN = 11.60$ cm, find $LN = ?$

(i) 17.80 cm (ii) 13.80 cm (iii) 15.80 cm (iv) 16.80 cm (v) 14.80 cm

Assignment Key

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