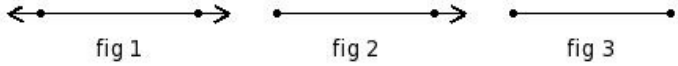
EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

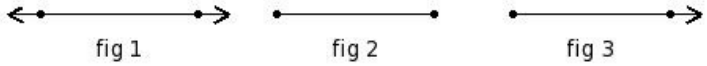
Grade : CBSE Grade VII

1. Which of the following figures represent a line?



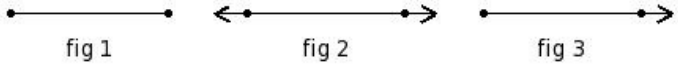
(i) fig 2 (ii) fig 1 (iii) fig 3

2. Which of the following figures represent a ray?



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

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

5. Identify the figure below

(i) octagon (ii) nonagon (iii) line (iv) triangle (v) decagon

6. Multiple lines drawn on a plane are called

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

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

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

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

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

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

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

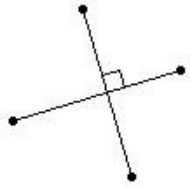
10. Two lines meeting at a point and making an angle of 90° at the meeting point are called

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

11. The following lines represent

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

12. The following lines represent



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

13. The following lines represent

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

14. Which of the following are true?

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

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

15. 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) 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) If a line cuts another line at more than one point, then one of the line is curved

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

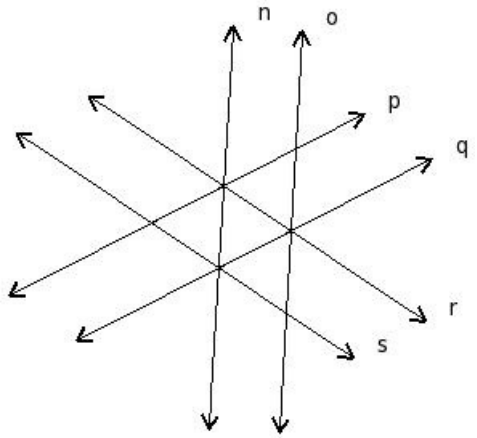
16. Which of the following are true?

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

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

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

a) n is the transversal of p & r
b) q is the transversal of n & o
c) n ∥ o
d) r is the transversal of p & q
e) n ∥ q
f) s is the transversal of p & n



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

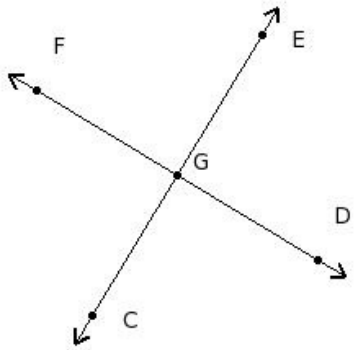
18. Which of the following are true with respect to lines f , g , h , i where f ∥ g , g ⊥ h , h ⊥ i?

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

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

19. Which of the following points are collinear?

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



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

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

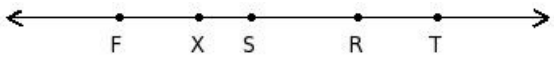
a) F,X,S,T,R are points on the line $\overleftrightarrow{FT}$

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

c) F,T are end points of line segment $\overline{FT}$

d) F,T are points on the line segment $\overline{XR}$

e) F,T are end points of line segment $\overline{XR}$



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

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

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

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

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

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

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

24. In the figure below, if $BC = 12.10$ cm and $CD = 4.90$ cm, find $BD = ?$

(i) 19.00 cm (ii) 18.00 cm (iii) 15.00 cm (iv) 16.00 cm (v) 17.00 cm

Assignment Key

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