

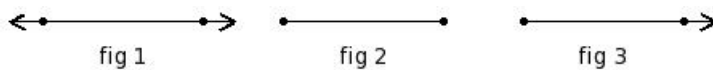
EduSahara™ Learning Center Assignment**Grade : Class VI, ICSE****Chapter : Fundamental Geometrical Concepts****Name : Line Concepts****Licensed To : Teachers and Students for non-commercial use**

1. Which of the following figures represent a line?



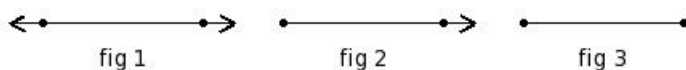
(i) fig 2 (ii) fig 1 (iii) fig 3

2. Which of the following figures represent a ray?



(i) fig 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. Identify the figure below



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

5. Multiple lines drawn on a plane are called

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

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

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

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

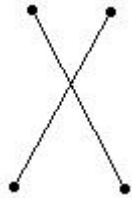
- (i) concurrent lines (ii) parallel lines (iii) perpendicular lines
(iv) coplanar lines (v) intersecting lines

8. The following lines represent



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

9. The following lines represent



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

10. Consider the following figure \overleftrightarrow{IM} .
 State which of the following statements are true?

- a) I, P, K, M, F are points on the line \overleftrightarrow{IM}
 b) I, M are end points of line segment \overline{PF}
 c) I, M are end points of line \overleftrightarrow{IM}
 d) I, M are points on the line segment \overline{PF}
 e) K, F are end points of line segment \overline{FI}



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

11. The representation \overleftrightarrow{HI} indicates

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

12. The representation \overline{FG} indicates

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

13. The representation \overrightarrow{EF} indicates

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

14. In the figure below, if $EF = 10.90$ cm and $FG = 4.20$ cm, find $EG = ?$



- (i) 16.10 cm (ii) 13.10 cm (iii) 14.10 cm (iv) 15.10 cm (v) 17.10 cm
-

15. 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,c} (iii) {b,a} (iv) {b,d} (v) {a,c,d,e}
-

16. Which of the following are true?

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

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

17. Which of the following are true?

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

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

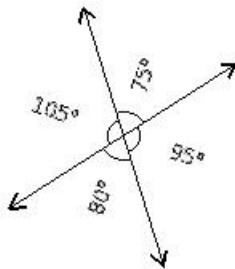
18. Which of the following are true with respect to lines p, q, r, s where $p \parallel q, q \perp r, r \perp s$?

- a) $p \perp s$
- b) $p \parallel s$
- c) $q \parallel s$
- d) $r \parallel s$

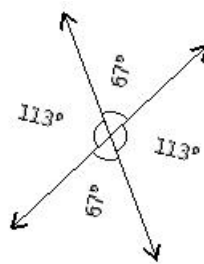
e) $p \parallel r$

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

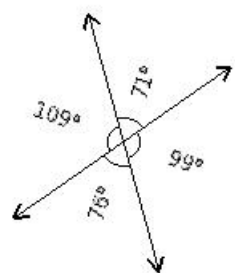
19. Which of the given figures is correct?



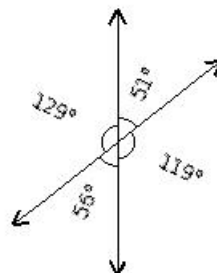
I



II



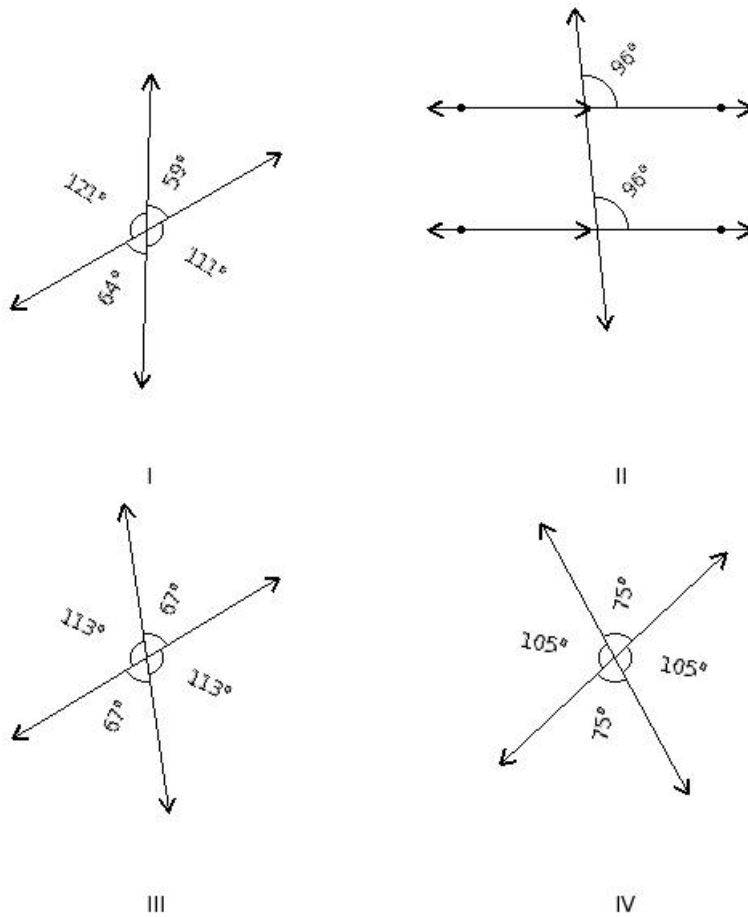
III



IV

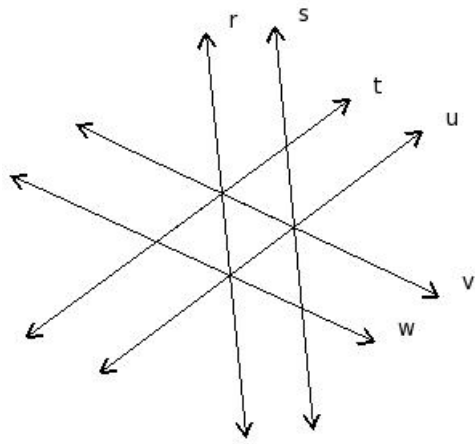
(i) IV (ii) I (iii) II (iv) III

20. Which of the given figures is wrong?



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

21. In the given figure, r, s, t, u, v, w are lines in a plane. By looking at the figure, which of the following are true?
- v is the transversal of t & u
 - w is the transversal of t & r
 - u is the transversal of r & s
 - $r \parallel s$
 - $r \parallel u$
 - r is the transversal of t & v



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

Assignment Key

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