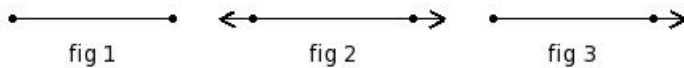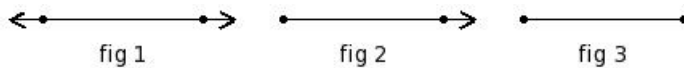# EduSahara™ Learning Center Assignment

Grade   : Class VIII, ICSE
Chapter   : Lines and Angles
Name   : Line Concepts
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1. Which of the following figures represent a line?
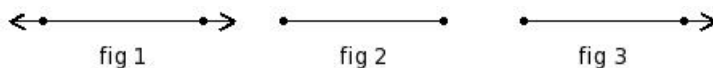

   (i) fig 3 (ii) fig 1 (iii) fig 2

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2. Which of the following figures represent a ray?

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

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

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

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4. Points lying on the same line are called

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

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

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

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6. Identify the figure below

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

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7. Multiple lines drawn on a plane are called

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

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

(i) intersecting lines   (ii) concurrent lines (iii) parallel lines

(iv) perpendicular lines (v) coplanar lines

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

   (i) perpendicular lines (ii) concurrent lines (iii) coplanar lines

   (iv) intersecting lines   (v) parallel lines

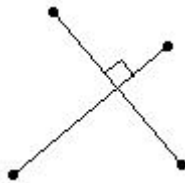10. A line that intersects two lines at two different points is called

   (i) coplanar lines   (ii) perpendicular lines (iii) transversal

   (iv) concurrent lines (v) parallel lines

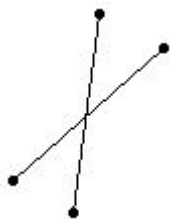11. The following lines represent

   (i) parallel lines   (ii) intersecting lines   (iii) concurrent lines

   (iv) coplanar lines (v) perpendicular lines

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12. The following lines represent

   (i) perpendicular lines (ii) intersecting lines (iii) parallel lines

   (iv) concurrent lines   (v) coplanar lines

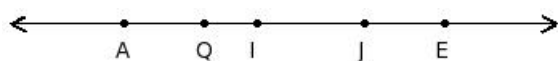13. The following lines represent

   (i) intersecting lines (ii) coplanar lines   (iii) concurrent lines

   (iv) parallel lines   (v) perpendicular lines

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

(i)   parallel lines   (ii) intersecting lines (iii) perpendicular lines

(iv) concurrent lines (v) coplanar lines

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15. Consider the following figure $\overleftrightarrow{AE}$.

State which of the following statements are true?

a) A , E are end points of line $\overleftrightarrow{AE}$

b) A , Q , I , E , J are points on the line $\overleftrightarrow{AE}$

c) I , J are end points of line segment $\overline{JA}$

d) A , E are points on the line segment $\overline{QJ}$

e) A , E are end points of line segment $\overline{QJ}$

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

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16. The representation $\overleftrightarrow{KL}$ indicates

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

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

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

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18. The representation $\overrightarrow{KL}$ indicates

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

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19. In the figure below, if AB = 5.40 cm and BC = 14.40 cm ,find AC = ?

(i) 19.80 cm (ii) 17.80 cm (iii) 20.80 cm (iv) 18.80 cm (v) 21.80 cm

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20. Which of the following are true?

a) A line has an infinite number of points on it

b) Small letters are used to represent lines

c) Capital letters are used to represent points

d) The length of a line segment cannot be determined

e) A ray has an infinite number of points on it

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

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21. Which of the following are true?

a) If two lines have no common point, then the lines are parallel

b) If two lines have infinite common points, then the two lines are concurrent

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) A straight line meets another straight line at atmost one point

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

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22. 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 $k \parallel l$ and $l \parallel m$, then $k \parallel m$

c) If $k \perp l$ and $k \perp m$, then $l \perp m$

d) If $k \perp l$ and $l \perp m$, then $k \perp m$

e) If two lines are parallel to the same line, then they are perpendicular to each other

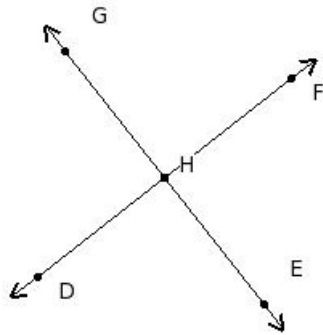(i) {c,a} (ii) {e,c,a} (iii) {d,b,a} (iv) {a,b} (v) {d,b}

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23. Which of the following are true with respect to lines e , f , g , h where $e \parallel f$, $f \perp g$, $g \perp h$?

a) $e \parallel h$

b) $g \parallel h$

c) $e \perp h$

d) $f \parallel h$

e) $e \parallel g$

(i) {b,a} (ii) {c,d} (iii) {a,d} (iv) {c,d,a} (v) {e,b,a}
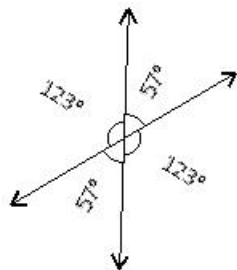
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24. Which of the following points are collinear?

a) H , G , F

b) D , H , F

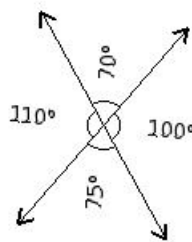c) F , H , G

d) G , H , E

e)　E , H , F

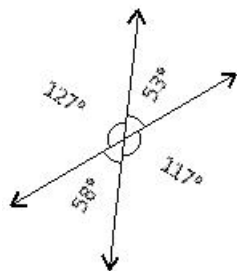(i) {a,b} (ii) {c,d,b} (iii) {e,a,b} (iv) {b,d} (v) {c,d}

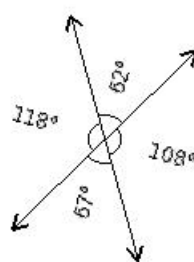25. Which of the given figures is correct?

I

II

III

IV

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

Assignment Key

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