EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Lines and Angles
Name : Line Concepts
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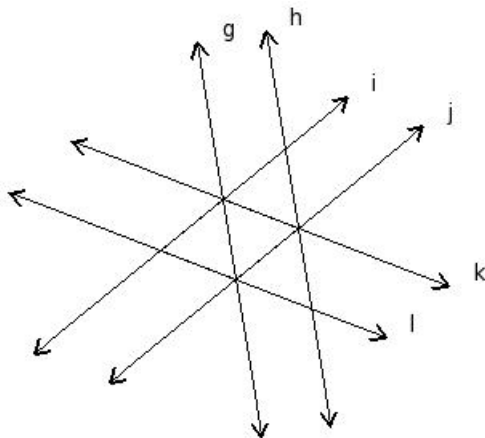
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1. Identify the figure below

   (i) line (ii) nonagon (iii) hexagon (iv) circle (v) quadrilateral

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2. Which of the following are true?

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

   b) If $k \parallel l$ and $l \parallel m$, then $k \parallel m$

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

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

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

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

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

   a) j is the transversal of g & h

   b) $g \parallel j$

   c) $g \parallel h$

   d) g is the transversal of i & k

   e) l is the transversal of i & g

   f) k is the transversal of i & j
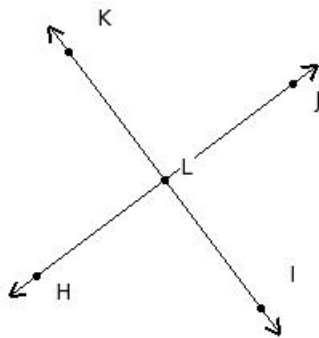

   (i) {a,c,e,f} (ii) {b,f,a} (iii) {b,a} (iv) {b,d,e} (v) {d,c}

4. Which of the following are true with respect to lines c , d , e , f where c∥d , d⊥e , e⊥f?

   a) e ∥ f

   b) c ∥ f

   c) c ⊥ f

   d) c ∥ e

   e) d ∥ f

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

5. Which of the following points are collinear?

   a) K , L , I

   b) J , L , K

   c) I , L , J

   d) L , K , J

   e) H , L , J

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

6. Points lying on the same line are called

   (i) concurrent points (ii) non-linear points (iii) semi-linear points

   (iv) collinear points   (v) linear points

7. Multiple lines drawn on a plane are called

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

   (iv) perpendicular lines (v) concurrent lines

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

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

   (iv) parallel lines   (v) perpendicular lines

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

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

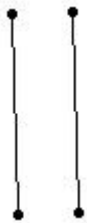 (iv) concurrent lines   (v) intersecting lines

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

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

 (iv) coplanar lines   (v) parallel lines

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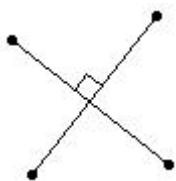
 at the meeting point are called

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

 (iv) perpendicular lines (v) coplanar lines

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12. The following lines represent

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

 (iv) intersecting lines (v) perpendicular lines

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13. The following lines represent

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

 (iv) parallel lines   (v) perpendicular lines

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14. The following lines represent

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

 (iv) coplanar lines   (v) parallel lines

Assignment Key

1) (i)
2) (ii)
3) (i)
4) (iii)
5) (ii)
6) (iv)
7) (ii)
8) (iv)
9) (iv)
10) (ii)
11) (iv)
12) (i)
13) (v)
14) (iii)