EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Fundamental Geometrical Concepts

Grade : ICSE Grade VI

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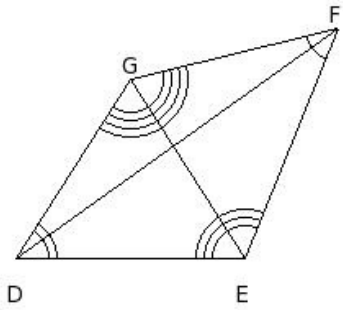
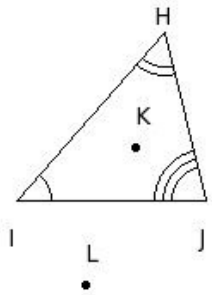
1. The angles of the quadrilateral are



(i) ∠D , ∠E , ∠G , ∠H (ii) ∠D , ∠E , ∠F , ∠G (iii) ∠D , ∠E , ∠F , ∠I (iv) ∠D , ∠E , ∠G , ∠I

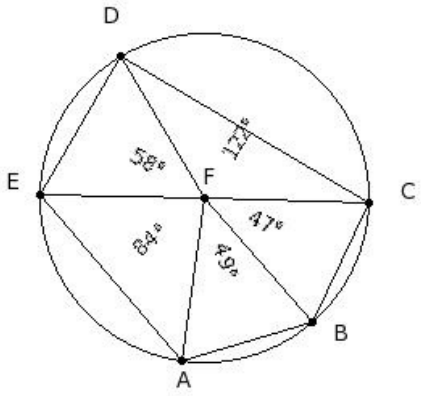
(v) ∠D , ∠E , ∠F , ∠H

2. The vertices of the triangle are



(i) J , K , L (ii) H , I , K (iii) H , I , J (iv) I , J , L (v) I , J , K

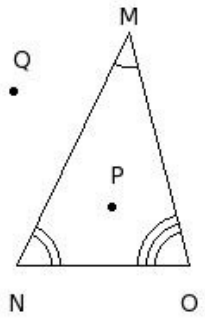
3. The radii of the circle are



(i) $\overline{FA}$, $\overline{FB}$, $\overline{FC}$, $\overline{FD}$, $\overline{FE}$ (ii) $\overline{AB}$, $\overline{BC}$, $\overline{CD}$, $\overline{DE}$, $\overline{EA}$ (iii) $\overline{BC}$, $\overline{CD}$, $\overline{DE}$, $\overline{EA}$ (iv) $\overline{AB}$, $\overline{BC}$, $\overline{CD}$, $\overline{DE}$, $\overline{EA}$, $\overline{FB}$

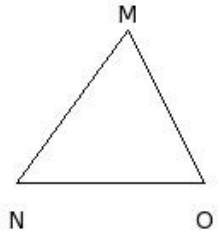
(v) $\overline{AB}$, $\overline{BC}$, $\overline{CD}$, $\overline{DE}$, $\overline{EA}$, $\overline{CE}$

4. The name of the triangle is



(i) △OPQ (ii) △MNP (iii) △NOP (iv) △NOQ (v) △MNO

5. The vertex opposite to the side $\overline{NO}$



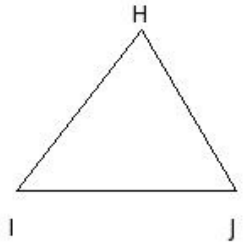
(i) Q (ii) N (iii) $\overline{OP}$ (iv) M

6. Which of the following are true with respect to lines n , o , p , q where n ∥ o , o ⊥ p , p ⊥ q?

a) n ∥ p
b) n ∥ q
c) n ⊥ q
d) o ∥ q
e) p ∥ q

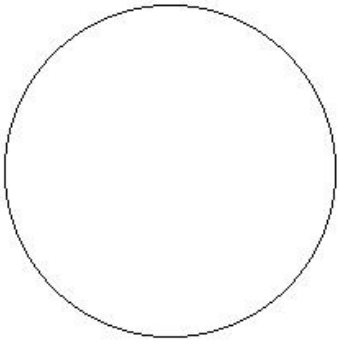
(i) {c,d,b} (ii) {a,b} (iii) {b,d} (iv) {e,a,b} (v) {c,d}

7. The side opposite to the vertex I



(i) $\overline{IJ}$ (ii) $\overline{HL}$ (iii) $\overline{HI}$ (iv) $\overline{JH}$ (v) $\overline{KI}$

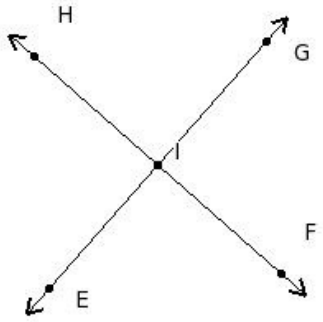
8. Identify the figure below



(i) circle (ii) pentagon (iii) triangle (iv) hexagon (v) decagon

9. Which of the following points are collinear?

a) G, I, H
b) E, I, G
c) F, I, G
d) I, H, G
e) H, I, F

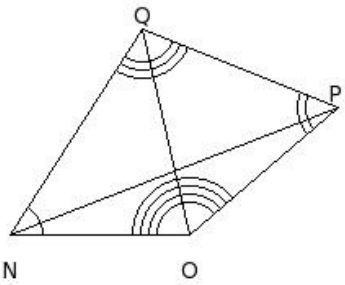


(i) {b,e} (ii) {a,b} (iii) {d,a,b} (iv) {c,e} (v) {c,e,b}

10. A polygon with 4 sides is called a

(i) triangle (ii) quadrilateral (iii) hexagon (iv) decagon (v) octagon

11. The name of the quadrilateral is

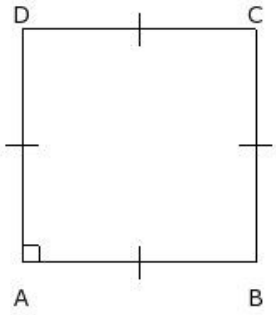


(i) NOPR (ii) NOPQ (iii) NOQR (iv) NPOQ (v) NPQO

12. Multiple lines drawn on a plane are called

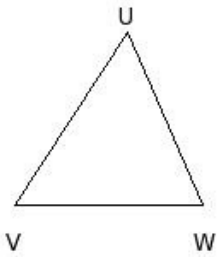
(i) intersecting lines (ii) coplanar lines (iii) perpendicular lines (iv) parallel lines (v) concurrent lines

13. Identify the figure below



(i) rectangle (ii) square (iii) parallelogram (iv) triangle (v) kite

14. The vertex opposite to the side $\overline{UV}$



(i) V (ii) U (iii) $\overline{WX}$ (iv) W

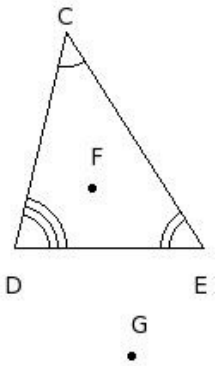
15. Identify the figure below

(i) quadrilateral (ii) angle (iii) triangle (iv) circle (v) line

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

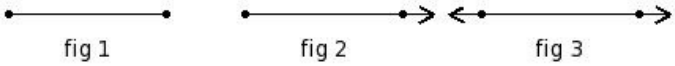
(i) ray (ii) line segment (iii) arc (iv) angle (v) line

17. The sides of the triangle are



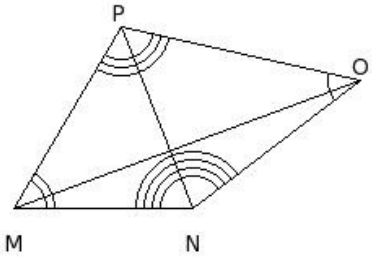
(i) $\overline{EF}, \overline{FD}, \overline{DE}$ (ii) $\overline{DE}, \overline{EC}, \overline{CD}$ (iii) $\overline{DF}, \overline{FC}, \overline{CD}$ (iv) $\overline{EG}, \overline{GD}, \overline{DE}$ (v) $\overline{FG}, \overline{GE}, \overline{EF}$

18. Which of the following figures represent a line?



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

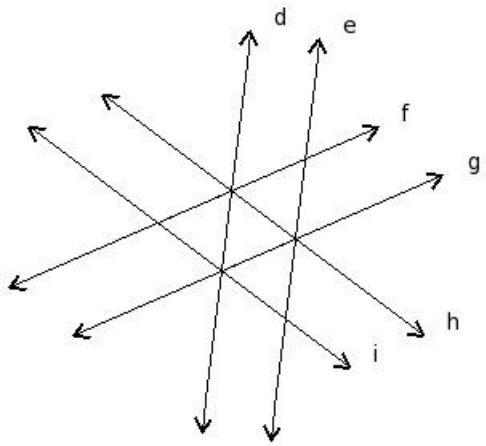
19. The vertices of the quadrilateral are



(i) M , N , O , P (ii) M , N , P , Q (iii) M , N , P , R (iv) M , N , O , R (v) M , N , O , Q

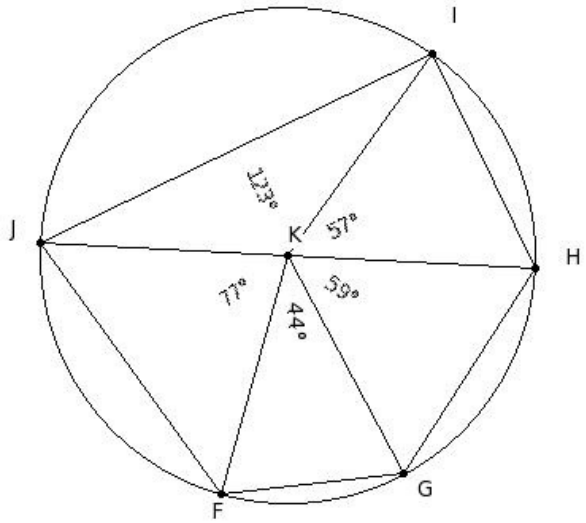
20. In the given figure, d , e , f , g , h , i are lines in a plane. By looking at the figure, which of the following are true?

a) h is the transversal of f & g
b) d is the transversal of f & h
c) d ∥ e
d) d ∥ g
e) i is the transversal of f & d
f) g is the transversal of d & e



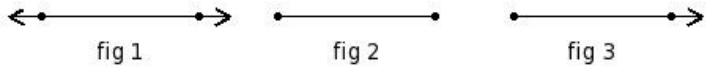
(i) {b,d,e} (ii) {b,a} (iii) {b,f,a} (iv) {d,c} (v) {a,c,e,f}

21. The centre of the circle is



(i) H (ii) I (iii) K (iv) F (v) G

22. Which of the following figures represent a ray?

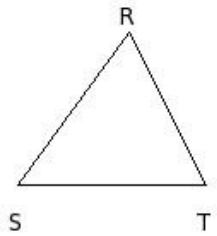


(i) fig 1 (ii) fig 3 (iii) fig 2

23. How many sides does a triangle have?

(i) 4 (ii) 2 (iii) 5 (iv) 1 (v) 3

24. The vertex opposite to the side $\overline{TR}$



(i) $\overline{TU}$ (ii) R (iii) V (iv) S

25. Which of the following are true?

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

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

Assignment Key

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