EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Polygons

Grade : ICSE Grade VII

1. Find the number of sides in a regular polygon if each interior angle is 171°

   (i) 39 (ii) 40 (iii) 38 (iv) 41 (v) 42

2. Sum of the interior angles in a pentagon is

   (i) 545° (ii) 555° (iii) 540° (iv) 550° (v) 570°

3. How many diagonals does a heptagon have?

   (i) 17 (ii) 13 (iii) 14 (iv) 11 (v) 15

4. A polygon with 10 sides is called a

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

5. The value of each exterior angle in an n-sided regular polygon is

   (i) $\left[\frac{(2n - 4) \times 180}{n}\right]°$ (ii) $\left[\frac{(2n - 4) \times 90}{n}\right]°$ (iii) $\left(\frac{360}{n}\right)°$ (iv) $\left(\frac{n}{360}\right)°$

6. How many sides does a heptagon have?

   (i) 5 (ii) 8 (iii) 7 (iv) 10 (v) 6

7. A polygon with 3 sides is called a

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

8. A polygon with 8 sides is called an

   (i) hexagon (ii) nonagon (iii) heptagon (iv) octagon (v) pentagon

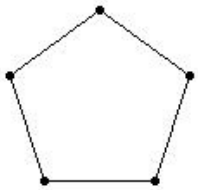
9. The value of the interior angle in a regular polygon when the exterior angle is given

   (i) 360°- (exterior angle) (ii) 180°+ (exterior angle) (iii) 180°- (exterior angle) (iv) 90°+ (exterior angle)

10. A polygon with 9 sides is called a

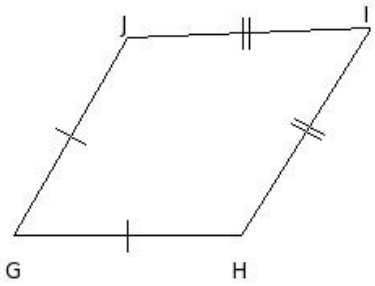
    (i) heptagon (ii) nonagon (iii) triangle (iv) decagon (v) pentagon

11. Identify the figure below



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

12. Identify the figure below



(i) nonagon (ii) quadrilateral (iii) triangle (iv) octagon (v) heptagon

13. How many diagonals does an octagon have?

(i) 17 (ii) 20 (iii) 19 (iv) 22 (v) 21

14. How many sides does a decagon have?

(i) 8 (ii) 11 (iii) 9 (iv) 10 (v) 12

15. How many sides does a quadrilateral have?

(i) 7 (ii) 5 (iii) 1 (iv) 4 (v) 3

16. Sum of the interior angles in an octagon is

(i) 1095° (ii) 1080° (iii) 1110° (iv) 1090° (v) 1085°

17. A polygon with 7 sides is called a

(i) heptagon (ii) triangle (iii) pentagon (iv) quadrilateral (v) nonagon

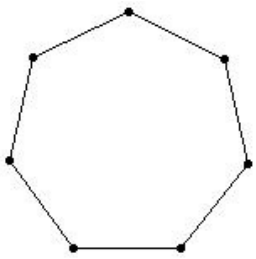
18. Sum of the interior angles in a heptagon is

(i) 930° (ii) 915° (iii) 900° (iv) 910° (v) 905°

19. How many diagonals does a triangle have?

(i) 1 (ii) 3 (iii) 0 (iv) 4 (v) 2

20. Identify the figure below

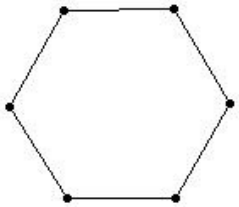


(i) circle (ii) heptagon (iii) quadrilateral (iv) pentagon (v) decagon

21. A polygon with 5 sides is called a

(i) quadrilateral (ii) hexagon (iii) heptagon (iv) pentagon (v) triangle

22. Identify the figure below



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

23. A polygon with 6 sides is called a

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

24. Find the number of sides in a regular polygon if each exterior angle is 36°

(i) 8 (ii) 11 (iii) 13 (iv) 9 (v) 10

25. Sum of the interior angles in a nonagon is

(i) 1290° (ii) 1270° (iii) 1275° (iv) 1265° (v) 1260°

Assignment Key

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