EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Polygons

Grade : ICSE Grade VII

1. How many sides does a nonagon have?

   (i) 11 (ii) 6 (iii) 10 (iv) 8 (v) 9

2. Sum of the interior angles in a pentagon is

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

3. How many diagonals does a heptagon have?

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

4. How many sides does a quadrilateral have?

   (i) 4 (ii) 5 (iii) 2 (iv) 3 (v) 7

5. Sum of the interior angles in a hexagon is

   (i) 730° (ii) 735° (iii) 720° (iv) 725° (v) 750°

6. A polygon with 10 sides is called a

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

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

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

8. How many diagonals does a triangle have?

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

9. How many diagonals does a decagon have?

   (i) 37 (ii) 35 (iii) 34 (iv) 33 (v) 36

10. A polygon with 3 sides is called a

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

11. A polygon with 7 sides is called a

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

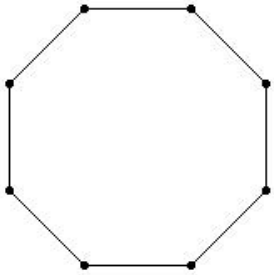
12. How many diagonals does a nonagon have?

    (i) 28 (ii) 24 (iii) 27 (iv) 26 (v) 30

13. The value of each interior angle in an n-sided regular polygon is

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

14. Identify the figure below



(i) hexagon (ii) octagon (iii) nonagon (iv) circle (v) triangle

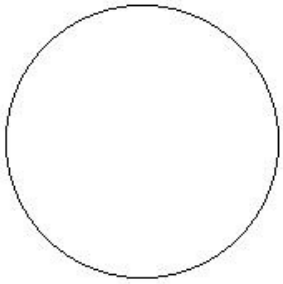
15. Sum of the interior angles in an octagon is

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

16. A polygon with 9 sides is called a

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

17. Identify the figure below



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

18. How many sides does a heptagon have?

(i) 6 (ii) 10 (iii) 4 (iv) 7 (v) 8

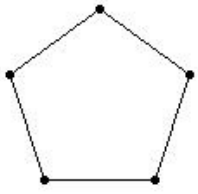
19. How many diagonals does a hexagon have?

(i) 10 (ii) 9 (iii) 6 (iv) 8 (v) 12

20. How many sides does a hexagon have?

(i) 9 (ii) 5 (iii) 6 (iv) 4 (v) 7

21. Identify the figure below

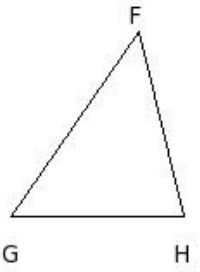


(i) nonagon (ii) triangle (iii) octagon (iv) pentagon (v) hexagon

22. A polygon with 5 sides is called a

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

23. Identify the figure below



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

24. The number of diagonals in a regular polygon with n sides is

(i) $\frac{(n)(n-3)}{2}$ (ii) $\frac{(n)(n+2)}{2}$ (iii) $\frac{(n)(n-2)}{2}$ (iv) $\frac{(n)(n+3)}{2}$ (v) $\frac{(n)(n-1)}{2}$

25. Sum of the interior angles in a quadrilateral is

(i) 360° (ii) 375° (iii) 390° (iv) 370° (v) 365°

Assignment Key

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