EduSahara™ Worksheet

Name : Chapter Based Worksheet

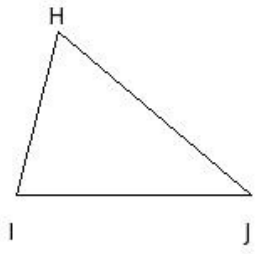
Chapter : Polygons

Grade : ICSE Grade VIII

1. Find the number of sides in a regular polygon if each exterior angle is 5°

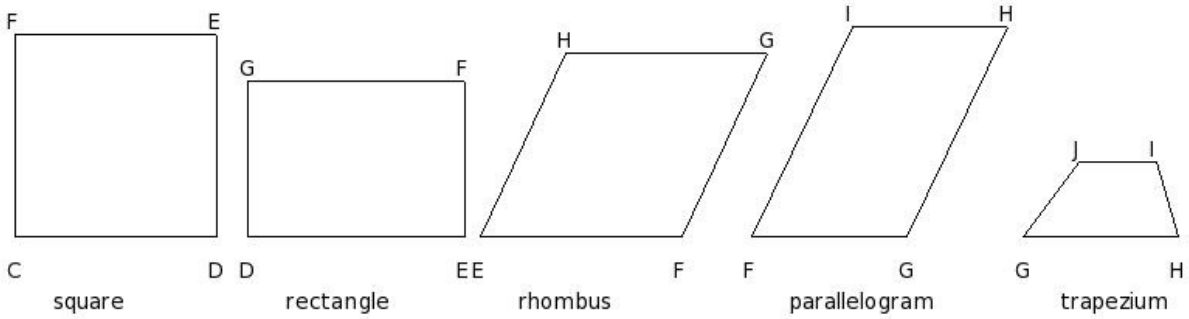
   (i) 74 (ii) 71 (iii) 70 (iv) 72 (v) 73

2. Identify the figure below



   (i) circle (ii) angle (iii) octagon (iv) triangle (v) heptagon

3. Which of the following figures is a regular quadrilateral?



   (i) trapezium (ii) rectangle (iii) rhombus (iv) square (v) parallelogram

4. How many diagonals does a nonagon have?

   (i) 26 (ii) 30 (iii) 25 (iv) 27 (v) 28

5. A polygon with 6 sides is called a

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

6. Sum of the interior angles in a heptagon is

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

7. Sum of the interior angles in a triangle is

   (i) 190° (ii) 195° (iii) 185° (iv) 180° (v) 210°

8. A polygon with 7 sides is called a

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

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

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

10. How many sides does a heptagon have?

(i) 7 (ii) 9 (iii) 5 (iv) 8 (v) 6

11. How many sides does a pentagon have?

(i) 5 (ii) 4 (iii) 6 (iv) 3 (v) 8

12. How many diagonals does a quadrilateral have?

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

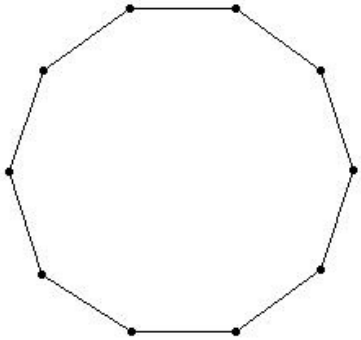
13. How many diagonals does a hexagon have?

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

14. How many sides does a nonagon have?

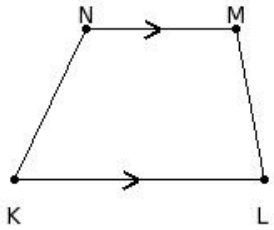
(i) 8 (ii) 12 (iii) 9 (iv) 7 (v) 10

15. Identify the figure below



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

16. Identify the figure below



(i) rhombus (ii) square (iii) trapezium (iv) rectangle (v) circle

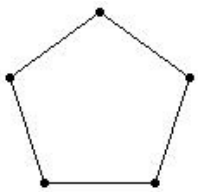
17. How many sides does a triangle have?

(i) 2 (ii) 6 (iii) 0 (iv) 3 (v) 4

18. A polygon with 9 sides is called a

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

19. Identify the figure below



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

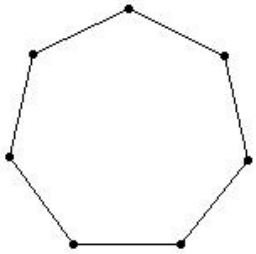
20. The value of each interior angle in an n-sided regular polygon is

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

21. Find the number of sides in a regular polygon if each interior angle is 90°

(i) 1 (ii) 5 (iii) 4 (iv) 6 (v) 3

22. Identify the figure below

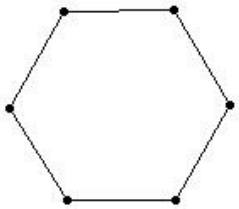


(i) circle (ii) nonagon (iii) pentagon (iv) decagon (v) heptagon

23. How many diagonals does a triangle have?

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

24. Identify the figure below



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

25. Sum of the interior angles in an octagon is

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

Assignment Key

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