EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Polygons

Grade : ICSE Grade VIII

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1. How many sides does an octagon have?

   (i) 7 (ii) 8 (iii) 6 (iv) 9 (v) 10

2. How many sides does a hexagon have?

   (i) 6 (ii) 3 (iii) 5 (iv) 7 (v) 8

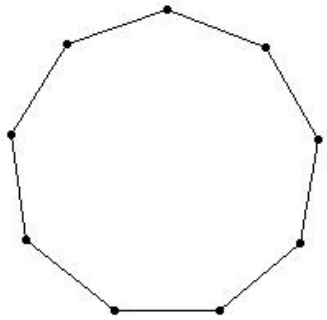
3. The value of the interior angle in a regular polygon when the exterior angle is given

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

4. How many diagonals does a decagon have?

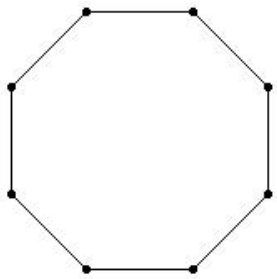
   (i) 34 (ii) 33 (iii) 35 (iv) 37 (v) 36

5. Identify the figure below



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

6. Identify the figure below



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

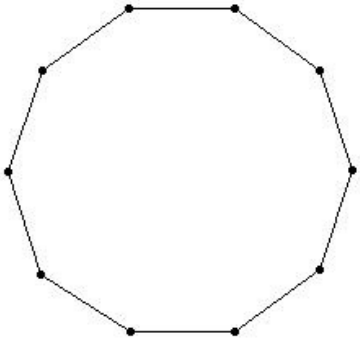
7. How many sides does a pentagon have?

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

8. How many sides does a quadrilateral have?

   (i) 6 (ii) 3 (iii) 2 (iv) 4 (v) 5

9. Identify the figure below



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

10. How many diagonals does a triangle have?

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

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

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

12. How many diagonals does an octagon have?

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

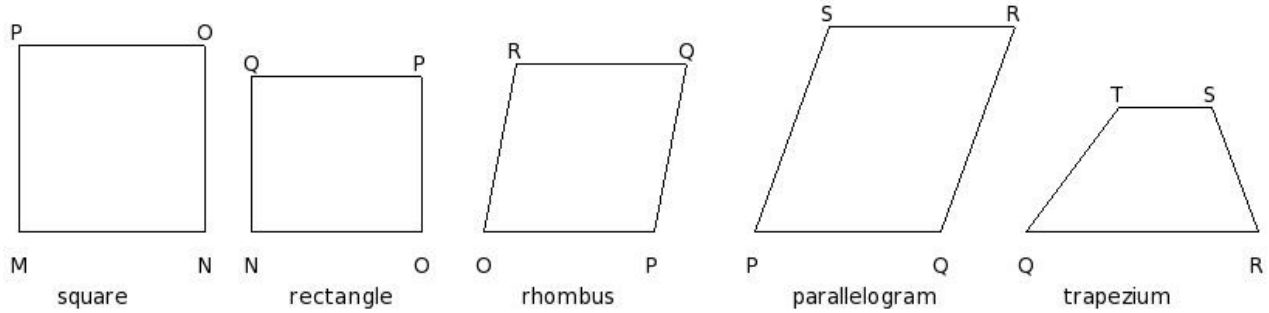
13. A polygon with 9 sides is called a

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

14. How many diagonals does a nonagon have?

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

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




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

16. A polygon with 10 sides is called a

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

17. Sum of the interior angles in a decagon is

(i) 1445° (ii) 1450° (iii) 1440° (iv) 1470° (v) 1455°

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

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

19. Find the number of sides in a regular polygon if each exterior angle is 30°

(i) 12 (ii) 10 (iii) 11 (iv) 13 (v) 15

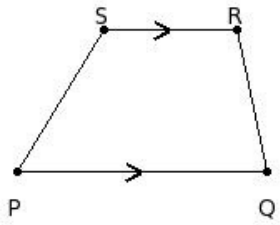
20. Sum of the interior angles in a pentagon is

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

21. Sum of the interior angles in an octagon is

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

22. Identify the figure below




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

23. Find the number of sides in a regular polygon if each interior angle is 156°

(i) 15 (ii) 12 (iii) 16 (iv) 14 (v) 17

24. How many sides does a heptagon have?

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

25. How many diagonals does a hexagon have?

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

## Assignment Key

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

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