

Class Test on Understanding Quadrilateral

Class – VIII

Full Marks: 12

Choose the correct option:

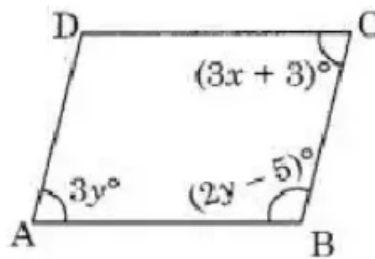
1x4=4

- Which of the following is true for the adjacent angles of a parallelogram?
(i) they are equal to each other (ii) they are complementary angles
(iii) they are supplementary angles (iv) none of these.
- The sides of a pentagon are produced in order. Which of the following is the sum of its exterior angles?
(i) 540° (ii) 180° (iii) 720° (iv) 360°
- Which of the following is a formula to find the sum of interior angles of a quadrilateral of n-sides?
(i) $\frac{n}{2} \times 180^\circ$ (ii) $\left(\frac{n+1}{2}\right) \times 180^\circ$ (iii) $\left(\frac{n-1}{2}\right) \times 180^\circ$ (iv) $(n-2) \times 180^\circ$
- Diagonals of which of the following quadrilaterals do not bisect it into two congruent triangles?
(i) rhombus (ii) trapezium (iii) square (iv) rectangle.

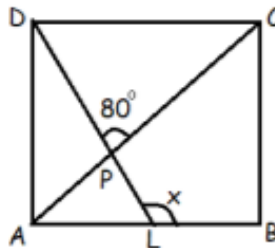
Answer the following questions:

2x4=8

5. ABCD is a parallelogram. Find value of x and y.



6. The exterior angle of a regular polygon is one-fifth of its interior angle. How many sides have the polygon?
7. In the figure, ABCD is a square. If $\angle DPC = 80^\circ$, then find x.



8. A diagonal and a side of a rhombus are of equal length. Find the measure of the angles of the rhombus.
