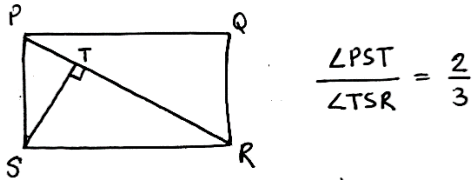


UNDERSTANDING QUADRILATERALS

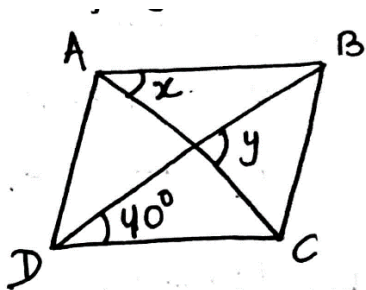
- Q.1 What is the sum of all angles of a hexagon ?
- (a) 180° (b) 360°
(c) 540° (d) 720°
- Q.2 A quadrilateral whose all sides are equal , opposite angles are equal and diagonals bisect each other at right angle is a _____ .
- (a) Rhombus (b) Parallelogram
(c) Square (d) Rectangle
- Q.3 Which of the following is an equiangular and equilateral polygon?
- (a) Rectangle (b) Square
(c) Rhombus (d) Right – angle Triangle
- Q.4 Which one has all properties of kite and parallelogram ?
- (a) Trapezium (b) Rhombus
(c) Rectangle (d) None of these
- Q.5 The number of sides of a regular polygon whose each exterior angle has a measure of 36° .
- (a) 8 (b) 12
(c) 14 (d) 10
- Q.6 If the diagonals of Rhombus are 8 cm and 6 cm. Then find its side length.
- (a) 3 cm (b) 4 cm
(c) 5 cm (d) 6 cm
- Q.7 Which of the following statement is true ?
- (a) All rhombuses are squares
(b) Rectangle is a regular quadrilateral
(c) Diagonals of Rhombus are equal
(d) All squares are rectangles
- Q.8 Which of the following is a formula to find the sum of interior angles of polygon of n-sides ?

- (a) $\frac{n}{2} \times 180^\circ$ (b) $(n - 3) \times 180^\circ$
 (c) $(n - 2) \times 180^\circ$ (d) $(n - 1) \times 180^\circ$

Q.9 PQRS is a Rectangle . The perpendicular ST from S on PR divides $\angle S$ in the ratio 2 : 3 . Find $\angle TPQ$.



- (a) 36° (b) 18°
 (c) 54° (d) 45°
- Q.10 The angles of quadrilateral are in ratio 3 : 4 : 5 : 6 . Find the largest angle.
- (a) 80° (b) 120°
 (c) 160° (d) 200°
- Q.11 ABCD is a trapezium such that $AB \parallel CD$, $\angle A : \angle D = 2 : 1$ and $\angle B : \angle C = 7 : 5$. find the value of $(\angle A + \angle C)$.
- (a) 225° (b) 180°
 (c) 195° (d) 200°
- Q.12 The measure of angles of a hexagon are x , $(x - 5)$, $(x + 5)$, $(2x - 5)$ and $(2x + 18)$. find the value of .
- (a) 78 (b) 80
 (c) 37 (d) 45
- Q.13 ABCD is a Rhombus. Then the value of $(y - x)$ is

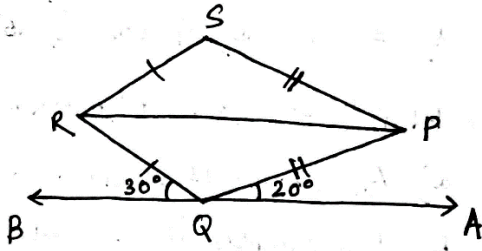


- (a) 40° (b) 50°

(c) 20°

(d) 10°

Q.14 PQRS is a kite and Q lies on line AB. If $\angle R = 40^\circ$, then find $\angle P$.



(a) 40°

(b) 70°

(c) 50°

(d) 60°

Q.15 For which of the following, Diagonals are equal ?

(a) Kite

(b) Rhombus

(c) Rectangle

(d) Trapezium

Q.16 For which of the following, Both diagonals of Quadrilateral does not bisect each other ?

(a) Kite

(b) Rhombus

(c) Rectangle

(d) Parallelogram

Q.17 State the name of a Regular polygon of 7 sides ?

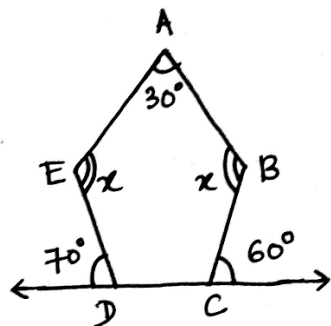
(a) Pentagon

(b) Hexagon

(c) Octagon

(d) Heptagon

Q.18 Find the value of x :



(a) 140°

(b) 150°

(c) 130°

(d) 160°

Q.19 ABCD is a Quadrilateral in which $AB \parallel CD$. if $\angle A = \angle B = 40^\circ$. Then find $(\angle C - \angle D)$.

- (a) 180° (b) 0°
(c) 90° (d) 60°

Q.20 ABCD is a parallelogram . The perimeter is 144 cm and $BC = 20$ cm. Then find AB.

- (a) 50 cm (b) 52 cm
(c) 46 cm (d) 60 cm

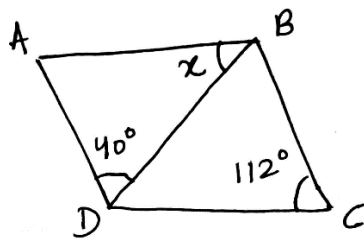
Q.21 The angles of the Quadrilateral are in ratio 2 : 5 : 4 : 1. Which of the following is true ?

- (a) Largest angle of Quadrilateral is 150°
(b) Smallest angle is 40°
(c) One of the angle is 80°
(d) None of the above

Q.22 ABCD is a rectangle. Its diagonals meet at O. find x , if $CO = 2x + 4$ and $BO = 3x + 1$.

- (a) 1 (b) 3
(c) 4 (d) 7

Q.23 Find the value of x in parallelogram ABCD :



- (a) 28° (b) 18°
(c) 36° (d) 42°

Q.24 How many sides does a Regular Polygon have if each of its interior angle is 165° ?

- (a) 15 (b) 24
(c) 36 (d) 18

Q.25 The _____ of a Rhombus are perpendicular bisectors of one another.

- (a) Sides (b) Angles

(c) Diagonals

(d) Vertices