# Quadrilaterals

#### Question 1.

A diagonal of a Rectangle is inclines to one side of the rectangle at an angle of 25°. The Acute Angle between the diagonals is:

- (a) 115°
- (b) 50°
- $(c) 40^{\circ}$
- (d)  $25^{\circ}$

Answer: (b) 50°

#### Ouestion 2.

The diagonals of a rectangle PQRS intersects at O. If  $\angle QOR = 44^{\circ}$ ,  $\angle OPS = ?$ 

- (a) 82°
- (b) 52°
- (c)  $68^{\circ}$
- (d)  $75^{\circ}$

Answer: (c) 68°

#### Question 3.

If angles A, B, C and D of the quadrilateral ABCD, taken in order, are in the ratio 3:7:6:4, then ABCD is

- (a) rhombus
- (b) parallelogram
- (c) trapezium
- (d) kite

Answer: (c) trapezium





## Question 4.

All the angles of a convex quadrilateral are congruent. However, not all its sides are congruent. What type of quadrilateral is it?

- (a) Parallelogram
- (b) Square
- (c) Rectangle
- (d) Trapezium

Answer: (c) Rectangle

#### Question 5.

In a Quadrilateral ABCD, AB = BC and CD = DA, then the quadrilateral is a

- (a) Triangle
- (b) Kite
- (c) Rhombus
- (d) Rectangle

Answer: (b) Kite

## Question 6.

The angles of a quadrilateral are  $(5x)^{\circ}$ ,  $(3x + 10)^{\circ}$ ,  $(6x - 20)^{\circ}$  and  $(x + 25)^{\circ}$ . Now, the measure of each angle of the quadrilateral will be

- (a)  $115^{\circ}$ ,  $79^{\circ}$ ,  $118^{\circ}$ ,  $48^{\circ}$
- (b) 100° 79°, 118°, 63°
- (c)  $110^{\circ}$ ,  $84^{\circ}$ ,  $106^{\circ}$ ,  $60^{\circ}$
- (d) 75°, 89°, 128°, 68°

Answer: (a) 115°, 79°, 118°, 48°

#### Question 7.

The diagonals of rhombus are 12 cm and 16 cm. The length of the side of rhombus is:

- (a) 12 cm
- (b) 16 cm
- (c) 8 cm
- (d) 10 cm

Answer: (d) 10 cm

## Question 8.

In quadrilateral PQRS, if  $\angle P = 60^{\circ}$  and  $\angle Q : \angle R : \angle S = 2 : 3 : 7$ , then  $\angle S =$ 





- (a)  $175^{\circ}$
- (b) 210°
- (c) 150°
- (d) 135°

Answer: (a) 175°

# Question 9.

In parallelogram ABCD, if  $\angle A = 2x + 15^{\circ}$ ,  $\angle B = 3x - 25^{\circ}$ , then value of x is:

- (a) 91°
- (b) 89°
- (c) 34°
- (d)  $38^{\circ}$

Answer: (d) 38°

# Question 10.

If ABCD is a trapezium in which AB  $\parallel$  CD and AD = BC, then:

- (a)  $\angle A = \angle B$
- (b)  $\angle A > \angle B$
- (c)  $\angle A \leq \angle B$
- (d) None of the above

Answer: (a)  $\angle A = \angle B$ 

#### Question 11.

The diagonals of a parallelogram:

- (a) Equal
- (b) Unequal
- (c) Bisect each other
- (d) Have no relation

Answer: (c) Bisect each other

#### Question 12.

The sum of all the angles of a quadrilateral is equal to:

- (a)  $180^{\circ}$
- (b)  $270^{\circ}$





(c) 360°

(d) 90°

Answer: (c) 360°

# Ouestion 13.

If an angle of a parallelogram is two-third of its adjacent angle, the smallest angle of the parallelogram is:

- (a) 81°
- (b) 54°
- (c) 108°
- (d) 72°

Answer: (d) 72°

## Question 14.

In a parallelogram ABCD, if  $\angle A = 75^{\circ}$ , then  $\angle B = ?$ 

- (a) 95°
- (b) 80°
- (c) 105°
- (d)  $15^{\circ}$

Answer: (c) 105°

# Question 15.

Angles of a quadrilateral are in the ratio 3:6:8:13. The largest angle is:

- (a) 178°
- (b)  $156^{\circ}$
- (c) 90°
- (d)  $36^{\circ}$

Answer: (b) 156°

## Question 16.

Perimeter of a parallelogram is 22 cm. If the longer side, measures 6.5 cm, the measure of the shorter side will be

- (a) 4.5 cm
- (b) 6.5 cm
- (c) 2.5 cm
- (d) 3.0 cm





# Answer: (a) 4.5 cm

#### Question 17.

If ABCD is a Parallelogram with 2 Adjacent angles  $\angle A = \angle B$ , then the parallelogram is a

- (a) Rhombus
- (b) Triangle
- (c) Rectangle
- (d) Square

Answer: (c) Rectangle

#### Ouestion 18.

Which of the following is not a parallelogram?

- (a) Rectangle
- (b) Rhombus
- (c) Square
- (d) Trapezium

Answer: (d) Trapezium

#### Question 19.

In a parallelogram the sum of two consecutive angles is

- (a)  $360^{\circ}$
- (b)  $100^{\circ}$
- (c)  $180^{\circ}$
- (d) 90°

Answer: (c) 180°

#### Question 20.

Two angles of a quadrilateral are  $50^{\circ}$  and  $80^{\circ}$  and other two angles are in the ratio 8 : 15. Find the measure of the remaining two angles.

- (a) 100°, 130°
- (b) 140°, 90°
- (c) 80°, 150°
- (d) 70°, 160°

Answer: (c) 80°, 150°





# Question 21.

he opposite angles of a parallelogram are  $(3x-2)^{\circ}$  and  $(50-x)^{\circ}$  the measure of these angles is

- $\overline{(a) \ 140^{\circ}}$ , 140°
- (b) 20°, 160°
- (c) 37°, 143°
- (d) 37°, 37°

Answer: (d) 37°, 37°

#### Question 22.

The diagonals AC and BD of a parallelogram ABCD intersect each other at the point O. If  $\angle DAC = 32^{\circ}$ ,  $\angle AOB = 70^{\circ}$ , then  $\angle DBC$  is equal to:

- (a)  $32^{\circ}$
- (b) 88°
- (c) 24°
- (d) 38°

Answer: (d) 38°

#### Ouestion 23.

Each angle of rectangle is:

- (a) More than 90°
- (b) Less than 90°
- (c) Equal to 90°
- (d) Equal to 45°

Answer: (c) Equal to 90°

# Question 24.

A diagonal of a parallelogram divides it into two congruent:

- (a) Square
- (b) Parallelogram
- (c) Triangles
- (d) Rectangle

Answer: (c) Triangles



