Parallelogram Worksheet – 1

1. Opposite sides of a parallelogram are equal. Mark True / False.

a)   True   b)   False

2. Opposite angles of a parallelogram are not equal. Mark True / False.

a)   True   b)   False

3. Parallelogram diagonals do not bisect each other. Mark True / False.

a)   True   b)   False

4. If the opposite sides of a quadrilateral are equal then it is a parallelogram. Mark True / False.

a)   True   b)   False

5. If the opposite angles of a quadrilateral are not equal then it is a parallelogram. Mark True / False.

a)   True   b)   False

6. Diagonals of a parallelogram never bisects it into two equal triangles. Mark True / False.

a)   True   b)   False

7. The diagonals of a parallelogram are equal. Mark True / False.

a)   True   b)   False

8. Sum of adjacent angles of a parallelogram is equal to 180°. Mark True / False.

a)   True   b)   False

9. Sum of all the angles of a parallelogram is less than or equal to 360°. Mark True / False.

a)   True   b)   False

10. The diagonals of a parallelogram bisect each other at right angles. Mark True / False.

a)   True   b)   False

11. If two adjacent angles of a parallelogram are $(5p – 10)^\circ$ and $(p + 10)^\circ$, then find both the angles.

a) 135° and 45° b) 125° and 55°

c) 140° and 40° d) 145° and 35°

12. Two adjacent angles of a parallelogram are as 2 : 3. Find the measure of all the angles.

a) $36^\circ, 72^\circ, 36^\circ, 72^\circ$ b) $72^\circ, 108^\circ, 36^\circ, 108^\circ$

c) $140^\circ, 40^\circ, 140^\circ, 40^\circ$ d) $72^\circ, 108^\circ, 72^\circ, 108^\circ$
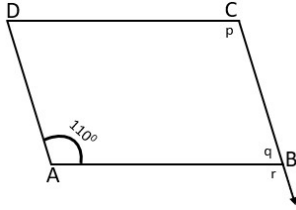
13. Two adjacent angles of a parallelogram are equal. What is the measure of each angle?

a) 60° b) 180°

c) 90° d) 270°

14. In a ABCD parallelogram, ∠A = 110°, find ∠B, ∠C and ∠D.

a)   ∠B = 65°, ∠C = 110° and ∠D = 65°

b)   ∠B = 70°, ∠C = 100° and ∠D = 70°

c)   ∠B = 75°, ∠C = 110° and ∠D = 75°

d)   ∠B = 70°, ∠C = 110° and ∠D = 70°

15. In the below mentioned figure ABCD is a parallelogram. Find the value of p, q and r.

a)   p = 110°, q = 65° and r = 110°

b)   p = 70°, q = 110° and r = 70°

c)   p = 110°, q = 70° and r = 110°

d)   p = 70°, q = 110° and r = 70°
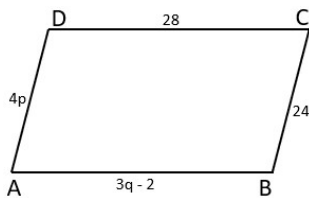
16. If an angle of a parallelogram is one-fifth of it's adjacent angle, then find all the angles of the parallelogram.

a)   36°, 72°, 36°, 72°   b)   150°, 30°, 150°, 30°

c)   140°, 40°, 140°, 40°   d)   72°, 108°, 72°, 108°

17. The sum of opposite angles of a parallelogram is equal to 150°. Find the sum of other two opposite angles.

a)   210°   b)   180°

c)   190°   d)   270°

18. In the below given parallelogram find the value of p and q.

a)   p = 6 and q = 8   b)   p = 8 and q = 6

c)   p = 6 and q = 12   d)   p = 6 and q = 10

19. Two adjacent angles of a parallelogram are $(3a – 10)°$ and $(3a + 40)°$. Find both the adjacent angles.

| a) | 65° and 110° | b) | 55° and 115° |
| c) | 65° and 115° | d) | 115° and 75° |

20. The perimeter of a parallelogram is 150 cm. One of its side is greater than the other side by 35 cm. Find the length of all the sides of the parallelogram.

| a) | 20 cm and 35 cm | b) | 20 cm and 55 cm |
| c) | 35 cm and 70 cm | d) | None of these |