



1. Which of the following have point symmetry ?

- a) rhombus
- b) square
- c) rectangle
- d) trapezium
- e) quadrilateral
- f) parallelogram

(i) {e,b} (ii) {a,b,c,f} (iii) {d,e,c} (iv) {d,a} (v) {d,f,a}

2. Which of the following statements are true?

- a) A parallelogram is a rhombus
- b) A trapezium is a parallelogram
- c) A parallelogram is a trapezium
- d) A rectangle is a parallelogram
- e) A rhombus is a square
- f) A square is a rhombus
- g) A square is a rectangle

(i) {b,d} (ii) {a,c} (iii) {b,g,c} (iv) {c,d,f,g} (v) {e,a,f}

3. Every rhombus is a

- a) parallelogram
- b) rectangle
- c) square
- d) trapezium
- e) triangle

(i) {c,d,a} (ii) {e,b,a} (iii) {c,d} (iv) {b,a} (v) {a,d}

4. The diagonals are equal in a

- a) trapezium
- b) square
- c) parallelogram
- d) rectangle
- e) rhombus

(i) {e,a,b} (ii) {a,b} (iii) {c,d} (iv) {b,d} (v) {c,d,b}

5. Sum of the interior angles in a quadrilateral is

(i) 375° (ii) 390° (iii) 365° (iv) 370° (v) 360°

6. How many diagonals does a quadrilateral have?

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

7. Which of the following are true?

- a) A square is a rhombus
- b) A parallelogram is a square
- c) A rhombus is a square
- d) A square is a rectangle
- e) A rectangle is a square

(i) {e,b,a} (ii) {c,d} (iii) {c,d,a} (iv) {b,a} (v) {a,d}

8. Which of the following are true?

- a) A rectangle is a square
- b) A rectangle is a parallelogram
- c) A parallelogram is a rectangle
- d) A square is a parallelogram
- e) A parallelogram is a square

(i) {c,d} (ii) {c,d,b} (iii) {b,d} (iv) {a,b} (v) {e,a,b}

9. Which of the following are true?

- a) A rhombus is a trapezium
- b) A rectangle is a square
- c) A trapezium is a rhombus
- d) A parallelogram is a trapezium
- e) A trapezium is a parallelogram

(i) {e,b,a} (ii) {b,a} (iii) {c,d} (iv) {a,d} (v) {c,d,a}

10. Which of the following are true?

- a) A rhombus is a kite
- b) A trapezium is a parallelogram
- c) A kite is a rhombus
- d) A parallelogram is a rhombus
- e) A rhombus is a parallelogram

(i) {c,e} (ii) {b,a} (iii) {c,e,a} (iv) {a,e} (v) {d,b,a}

11. Which of the following are true?

- a) A square is a rectangle
- b) A square is a trapezium
- c) A rectangle is a rhombus
- d) A trapezium is a square
- e) A parallelogram is a rhombus

(i) {a,b} (ii) {d,b,a} (iii) {d,b} (iv) {c,a} (v) {e,c,a}

12. The quadrilateral whose diagonals are equal and are perpendicular bisectors is a

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

13. The diagonals do not divide the quadrilateral into congruent triangles in which figure?

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

14. Name all quadrilaterals whose diagonals are equal

- (i) rectangle, rhombus (ii) square, rhombus (iii) square, kite (iv) square, rectangle
(v) parallelogram, square, rhombus, rectangle

15. Name all quadrilaterals whose diagonals bisect each other

- (i) square, kite (ii) square, rectangle (iii) rectangle, rhombus (iv) parallelogram, square, rhombus, rectangle
(v) square, parallelogram

16. Name all quadrilaterals whose diagonals are perpendicular and bisect each other

- (i) square, rhombus (ii) square, rectangle (iii) square, parallelogram
(iv) parallelogram, square, rhombus, rectangle (v) rectangle, rhombus

17. Name all quadrilaterals whose opposite sides are equal

- (i) parallelogram, square, rhombus, rectangle (ii) square, parallelogram (iii) rectangle, rhombus
(iv) square, kite (v) square, rectangle

18. Name all quadrilaterals whose opposite sides are parallel

- (i) square, rhombus (ii) rectangle, rhombus (iii) square, kite (iv) square, parallelogram
(v) parallelogram, square, rhombus, rectangle

19. Name all quadrilaterals whose all sides are equal

- (i) square, rectangle (ii) square, kite (iii) rectangle, rhombus (iv) square, rhombus (v) square, parallelogram

20. Name all quadrilaterals whose all angles are right angles

- (i) square, rectangle (ii) square, parallelogram (iii) rectangle, rhombus
(iv) parallelogram, square, rhombus, rectangle (v) square, rhombus

21. Name all quadrilaterals whose opposite angles are equal

- (i) square, kite (ii) parallelogram, square, rhombus, rectangle (iii) square, rectangle (iv) rectangle, rhombus
(v) square, parallelogram

22. Name all quadrilaterals whose all angles are equal

- (i) parallelogram, square, rhombus, rectangle (ii) square, kite (iii) square, rectangle (iv) square, parallelogram
(v) square, rhombus

23. Name all quadrilaterals whose adjacent angles are supplementary

- (i) square, rhombus (ii) square, parallelogram (iii) square, kite (iv) parallelogram, square, rhombus, rectangle
(v) rectangle, rhombus

24. Which of the following is a regular polygon with four sides?

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

25. Which of the following statements are true?

- a) In a parallelogram, adjacent angles are complementary
- b) In a parallelogram, both adjacent angles can be acute
- c) In a parallelogram, both adjacent angles can be obtuse
- d) In a parallelogram, adjacent angles are supplementary
- e) In a parallelogram, both adjacent angles can be right angles

(i) {c,a,d} (ii) {d,e} (iii) {b,e} (iv) {a,d} (v) {b,e,d}

26. Which of the following properties apply for a parallelogram ?

- a) Adjacent angles are supplementary
- b) Opposite sides are equal
- c) Opposite angles are equal
- d) Diagonals are equal to each other
- e) Diagonals are perpendicular to each other
- f) Diagonals bisect each other

(i) {e,b} (ii) {d,e,c} (iii) {d,a} (iv) {a,b,c,f} (v) {d,f,a}

27. Which of the following properties apply for a trapezium ?

- (i) Both adjacent angles are obtuse
- (ii) Adjacent angles are supplementary
- (iii) Diagonals bisect each other
- (iv) One pair of opposite sides are parallel
- (v) Diagonals are equal

28. Which of the following properties apply for a kite ?

- (i) Opposite sides are parallel
- (ii) Adjacent angles are equal
- (iii) Diagonals are equal
- (iv) Diagonals are perpendicular
- (v) Opposite sides are equal

29. Which of the following properties apply for a rhombus ?

- a) Adjacent sides are equal
- b) Opposite sides are equal
- c) Diagonals bisect each other
- d) Opposite angles are equal
- e) Adjacent angles are equal
- f) Opposite sides are parallel
- g) Diagonals are equal

(i) {g,b} (ii) {a,b,c,d,f} (iii) {e,a} (iv) {e,g,c} (v) {e,d,f}

30. Which of the following properties apply for a rectangle ?

- a) Opposite sides are equal
- b) Adjacent sides are equal
- c) Adjacent angles are equal
- d) Opposite angles are equal
- e) Diagonals are equal
- f) Opposite sides are parallel
- g) Diagonals bisect each other

(i) {a,c,d,e,f,g} (ii) {b,d} (iii) {b,c} (iv) {b,e,f} (v) {b,a}

31. Which of the following statements are true?

- a) Every parallelogram is a trapezium
- b) Every square is a rhombus
- c) Every rectangle is a parallelogram
- d) Every square is a rectangle
- e) Every rhombus is a parallelogram
- f) Every parallelogram is a rectangle
- g) Every rectangle is a rhombus

(i) {a,b,c,d,e} (ii) {f,a} (iii) {f,d,e} (iv) {f,g,c} (v) {g,b}

32. The figure formed by successively joining the mid-points of the sides of a parallelogram is

- (i) rhombus (ii) square (iii) rectangle (iv) parallelogram

33. The figure formed by successively joining the mid-points of the sides of a rectangle is

- (i) parallelogram (ii) rhombus (iii) rectangle (iv) square

34. The figure formed by successively joining the mid-points of the sides of a rhombus is

- (i) square (ii) rhombus (iii) parallelogram (iv) rectangle

Assignment Key

1) (ii)	2) (iv)	3) (v)	4) (iv)	5) (v)	6) (iii)
7) (v)	8) (iii)	9) (iv)	10) (iv)	11) (i)	12) (i)
13) (iii)	14) (iv)	15) (iv)	16) (i)	17) (i)	18) (v)
19) (iv)	20) (i)	21) (ii)	22) (iii)	23) (iv)	24) (ii)
25) (ii)	26) (iv)	27) (iv)	28) (iv)	29) (ii)	30) (i)
31) (i)	32) (iv)	33) (ii)	34) (iv)		