



1. The diagonals are equal in a
 - a) trapezium
 - b) square
 - c) rhombus
 - d) rectangle
 - e) parallelogram

(i) {e,a,b} (ii) {b,d} (iii) {c,d,b} (iv) {c,d} (v) {a,b}
2. Sum of the interior angles in a quadrilateral is
 - (i) 360° (ii) 365° (iii) 370° (iv) 390° (v) 375°
3. How many diagonals does a quadrilateral have?
 - (i) 1 (ii) 4 (iii) 3 (iv) 2 (v) 0
4. Which of the following are true?
 - a) A parallelogram is a square
 - b) A square is a rhombus
 - c) A rhombus is a square
 - d) A rectangle is a square
 - e) A square is a rectangle

(i) {a,b} (ii) {c,e} (iii) {c,e,b} (iv) {b,e} (v) {d,a,b}
5. Which of the following are true?
 - a) A parallelogram is a rectangle
 - b) A parallelogram is a square
 - c) A rectangle is a parallelogram
 - d) A rectangle is a square
 - e) A square is a parallelogram

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

7. Which of the following are true?

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

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

8. Which of the following are true?

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

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

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

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

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

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

11. Name all quadrilaterals whose diagonals are equal

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

12. Name all quadrilaterals whose diagonals bisect each other

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

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

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

14. Name all quadrilaterals whose opposite sides are equal

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

15. Name all quadrilaterals whose opposite sides are parallel

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

16. Name all quadrilaterals whose all sides are equal

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

17. Name all quadrilaterals whose all angles are right angles

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

18. Name all quadrilaterals whose opposite angles are equal

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

19. Name all quadrilaterals whose all angles are equal

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

20. Name all quadrilaterals whose adjacent angles are supplementary

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

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

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

22. Which of the following statements are true?

- a) All trapeziums are parallelograms
b) The set of parallelograms is a subset of the set of trapeziums
c) All quadrilaterals are parallelograms
d) All quadrilaterals are trapeziums
e) A parallelogram is a trapezium

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

23. If ABCD is an isosceles trapezium, $\angle C =$

- (i) $\angle D$ (ii) 90° (iii) $\angle B$ (iv) $\angle A$

24. In which of the following are the diagonals equal ?

- (i) None of these (ii) trapezium (iii) rectangle (iv) rhombus (v) parallelogram

25. If one of the angles of a rhombus is a right angle, it is a

- (i) rectangle (ii) None of these (iii) parallelogram (iv) trapezium (v) square

26. If the two diagonals of a parallelogram are equal and right bisectors of each other, it is a

- (i) square (ii) rhombus (iii) trapezium (iv) rectangle (v) None of these

EFGH is a rhombus in which $\angle E = 120^\circ$.

27. \overline{FH}

is the diagonal. Then $\triangle EFG$ is

- (i) a scalene triangle (ii) None of these (iii) an isosceles triangle (iv) an equilateral triangle
(v) an obtuse angled triangle

CDEF is a rhombus in which $\angle C = 131^\circ$.

28. \overline{DF}

is the diagonal. Then $\triangle CDE$ is

- (i) an obtuse angled triangle (ii) a scalene triangle (iii) an equilateral triangle (iv) None of these
(v) an isosceles triangle

29. Which of the following statements are true?

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

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

30. Which of the following have point symmetry ?

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

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

31. Which of the following statements are true?

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

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

32. Which of the following statements are true?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

38. Which of the following statements are true?

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

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

Assignment Key

1) (ii)	2) (i)	3) (iv)	4) (iv)	5) (ii)	6) (iii)
7) (v)	8) (ii)	9) (iv)	10) (i)	11) (iv)	12) (i)
13) (v)	14) (ii)	15) (iii)	16) (ii)	17) (iii)	18) (i)
19) (ii)	20) (v)	21) (iii)	22) (iii)	23) (i)	24) (iii)
25) (v)	26) (i)	27) (iv)	28) (v)	29) (v)	30) (v)
31) (iii)	32) (ii)	33) (ii)	34) (iii)	35) (iv)	36) (iv)
37) (v)	38) (v)				