



1. Which of the following statements are true?

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

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

2. The sum of the interior angles of a quadrilateral is

- (i) 180° (ii) 270° (iii) 90° (iv) 360°

3. If ABCD is an isosceles trapezium, $\angle D =$

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

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

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

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

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

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

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

BCDE is a rhombus in which $\angle B = 120^\circ$.

7. \overline{CE}

is the diagonal. Then $\triangle BCD$ is

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

DEFG is a rhombus in which $\angle D = 129^\circ$.

8. \overline{EG}

is the diagonal. Then $\triangle DEF$ is

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

9. Which of the following statements are true?

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

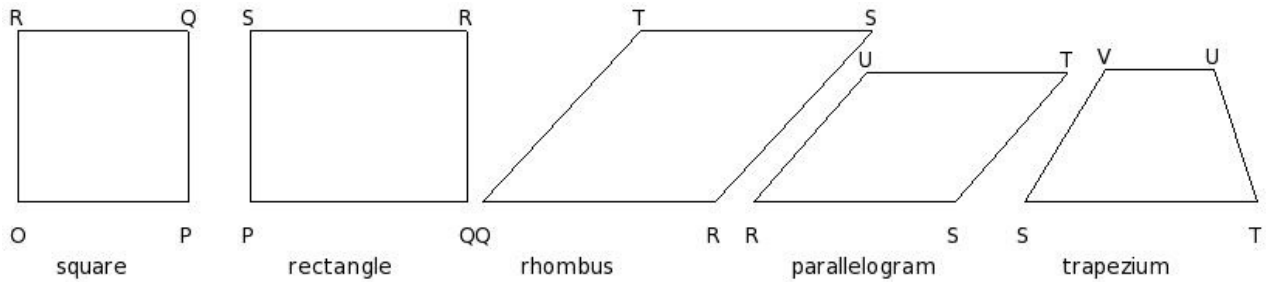
(i) {b,a} (ii) {b,e,d} (iii) {b,a,c} (iv) {a,c,d} (v) {e,c}

10. Which of the following statements are true?

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

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

11. Which of the following figures is a regular quadrilateral?



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

12. Every rhombus is a

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

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

13. The diagonals are equal in a

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

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

14. Sum of the interior angles in a quadrilateral is

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

15. How many diagonals does a quadrilateral have?

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

16. Which of the following are true?

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

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

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

18. Which of the following are true?

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

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

19. Which of the following are true?

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

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

20. Which of the following are true?

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

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

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

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

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

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

23. Name all quadrilaterals whose diagonals are equal

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

24. Name all quadrilaterals whose diagonals bisect each other
(i) square,parallelogram (ii) square,rectangle (iii) parallelogram,square,rhombus,rectangle
(iv) rectangle,rhombus (v) square,kite
25. Name all quadrilaterals whose diagonals are perpendicular and bisect each other
(i) square,parallelogram (ii) parallelogram,square,rhombus,rectangle (iii) square,kite (iv) square,rectangle
(v) square,rhombus
26. Name all quadrilaterals whose opposite sides are equal
(i) parallelogram,square,rhombus,rectangle (ii) square,rectangle (iii) square,kite (iv) rectangle,rhombus
(v) square,rhombus
27. Name all quadrilaterals whose opposite sides are parallel
(i) square,kite (ii) square,parallelogram (iii) square,rhombus (iv) parallelogram,square,rhombus,rectangle
(v) rectangle,rhombus
28. Name all quadrilaterals whose all sides are equal
(i) square,parallelogram (ii) square,kite (iii) parallelogram,square,rhombus,rectangle
(iv) rectangle,rhombus (v) square,rhombus
29. Name all quadrilaterals whose all angles are right angles
(i) parallelogram,square,rhombus,rectangle (ii) rectangle,rhombus (iii) square,rectangle
(iv) square,rhombus (v) square,parallelogram
30. Name all quadrilaterals whose opposite angles are equal
(i) square,rectangle (ii) square,kite (iii) parallelogram,square,rhombus,rectangle (iv) square,parallelogram
(v) rectangle,rhombus
31. Name all quadrilaterals whose all angles are equal
(i) square,rhombus (ii) rectangle,rhombus (iii) square,rectangle (iv) square,kite
(v) parallelogram,square,rhombus,rectangle
32. Name all quadrilaterals whose adjacent angles are supplementary
(i) square,parallelogram (ii) square,rectangle (iii) square,kite (iv) square,rhombus
(v) parallelogram,square,rhombus,rectangle
33. Which of the following is a regular polygon with four sides?
(i) rectangle (ii) parallelogram (iii) trapezium (iv) rhombus (v) square
34. Which of the following statements are true?
a) In a parallelogram, both adjacent angles can be obtuse
b) In a parallelogram, adjacent angles are complementary
c) In a parallelogram, adjacent angles are supplementary
d) In a parallelogram, both adjacent angles can be acute
e) In a parallelogram, both adjacent angles can be right angles

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

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

- a) Opposite angles are equal
 - b) Diagonals bisect each other
 - c) Diagonals are perpendicular to each other
 - d) Diagonals are equal to each other
 - e) Opposite sides are equal
 - f) Adjacent angles are supplementary
- (i) {c,a} (ii) {c,f,a} (iii) {d,b} (iv) {c,d,e} (v) {a,b,e,f}

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

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

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

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

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

- a) Opposite angles are equal
 - b) Diagonals are equal
 - c) Opposite sides are parallel
 - d) Opposite sides are equal
 - e) Adjacent angles are equal
 - f) Adjacent sides are equal
 - g) Diagonals bisect each other
- (i) {b,f,g} (ii) {a,c,d,f,g} (iii) {b,e,d} (iv) {e,c} (v) {b,a}

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

- a) Opposite angles are equal
 - b) Opposite sides are equal
 - c) Adjacent angles are equal
 - d) Opposite sides are parallel
 - e) Adjacent sides are equal
 - f) Diagonals are equal
 - g) Diagonals bisect each other
- (i) {e,a} (ii) {e,c} (iii) {e,d,f} (iv) {a,b,c,d,f,g} (v) {e,b}

40. Which of the following statements are true?

- a) Every parallelogram is a rectangle
 - b) Every square is a rhombus
 - c) Every rectangle is a rhombus
 - d) Every rhombus is a parallelogram
 - e) Every parallelogram is a trapezium
 - f) Every square is a rectangle
 - g) Every rectangle is a parallelogram
- (i) {b,d,e,f,g} (ii) {a,b} (iii) {a,c,e} (iv) {a,f,g} (v) {c,d}

Assignment Key

1) (ii)	2) (iv)	3) (ii)	4) (i)	5) (i)	6) (v)
7) (v)	8) (iii)	9) (iv)	10) (iv)	11) (iv)	12) (iii)
13) (iv)	14) (ii)	15) (ii)	16) (v)	17) (i)	18) (ii)
19) (ii)	20) (iv)	21) (iv)	22) (iv)	23) (ii)	24) (iii)
25) (v)	26) (i)	27) (iv)	28) (v)	29) (iii)	30) (iii)
31) (iii)	32) (v)	33) (v)	34) (iv)	35) (v)	36) (iii)
37) (v)	38) (ii)	39) (iv)	40) (i)		