EduSahara™ Assignment

Name : Quadrilateral Properties

Chapter : Understanding Quadrilaterals

Grade : CBSE Grade VIII

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1. The diagonals are equal in a

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

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

2. Sum of the interior angles in a quadrilateral is

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

3. How many diagonals does a quadrilateral have?

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

4. Which of the following are true?

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

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

5. Which of the following are true?

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

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

6. Which of the following are true?

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

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

7. Which of the following are true?

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

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

8. Which of the following are true?

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

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

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

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

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

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

11. Name all quadrilaterals whose diagonals are equal

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

12. Name all quadrilaterals whose diagonals bisect each other

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

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

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

14. Name all quadrilaterals whose opposite sides are equal

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

15. Name all quadrilaterals whose opposite sides are parallel

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

(v) square,parallelogram

18. Name all quadrilaterals whose opposite angles are equal

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

(v) parallelogram,square,rhombus,rectangle

19. Name all quadrilaterals whose all angles are equal

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

(iv) square,rhombus (v) square,kite

20. Name all quadrilaterals whose adjacent angles are supplementary

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

(iv) square,parallelogram (v) square,kite

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

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

22. Which of the following statements are true?

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

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

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

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

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

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

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

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

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

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

KLMN is a rhombus in which $\angle K = 120°$.

27. $\overline{LN}$

is the diagonal. Then $\triangle KLM$ is

(i) an equilateral triangle (ii) None of these (iii) an obtuse angled triangle (iv) an isosceles triangle

(v) a scalene triangle

CDEF is a rhombus in which $\angle C = 118°$.

28. $\overline{DF}$

is the diagonal. Then $\triangle CDE$ is

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

(v) an equilateral triangle

29. Which of the following statements are true?

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

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

30. Which of the following have point symmetry ?

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

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

31. Which of the following statements are true?

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

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

32. Which of the following statements are true?

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

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

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

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

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

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

(i) Diagonals bisect each other (ii) Both adjacent angles are obtuse

(iii) Diagonals are perpendicular to each other (iv) One pair of opposite sides are parallel

(v) Diagonals are equal

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

(i) Diagonals are perpendicular (ii) Opposite sides are parallel (iii) All Adjacent sides are equal

(iv) Diagonals are equal (v) Opposite sides are equal

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

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

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

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

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

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

38. Which of the following statements are true?

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

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

Assignment Key

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

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