Geometry :Shapes
(Quadrilaterals)
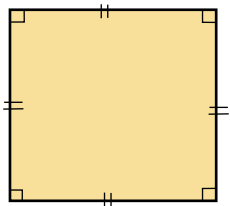
Notes

Quadrilaterals are those shapes which has
- **FOUR** sides.
- They are **2D shapes**.
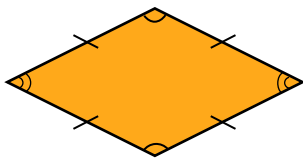- They have **closed points**.
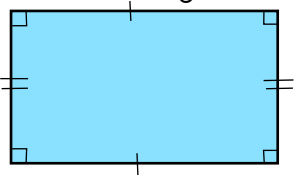- All **sides are straight**.

Characteristics

Square

- It has **Four Equal sides**.
- It has **Four Equal angles: Right angle**.
- **Opposite sides** are **parallel.**

Rhombus

- It has **Four Equal sides**.
- ~~It has **Four Equal angles: Right angle**.~~
- **Opposite sides** are **parallel.**
- **Opposite angles** are **equal.**
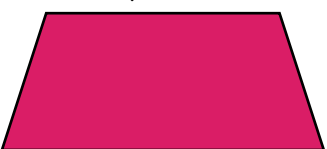- **A square can be rhombus but a rhombus can NOT be square.**

Rectangle

- The **two opposite sides are equal** .
- It has **Four Equal angles: Right angle**.
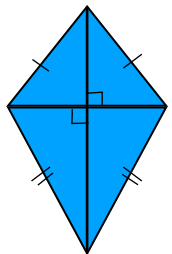- **Opposite sides** are **parallel.**

Parallelogram

- The **two opposite sides are equal** .
- ~~It has **Four Equal angles: Right angle**.~~
- **Opposite sides** are **parallel.**
- **Opposite angles** are **equal.**

Trapezoid

- has **exactly one pair** of parallel sides.
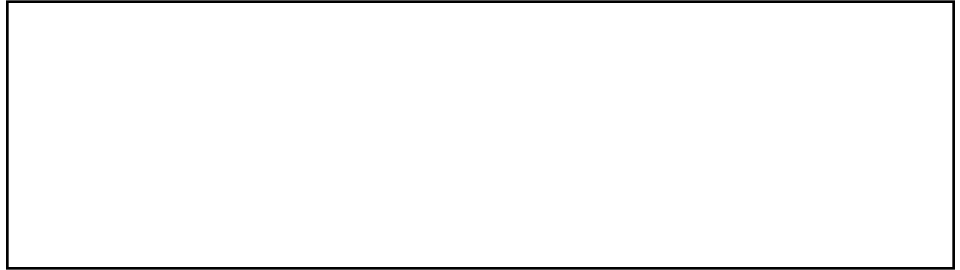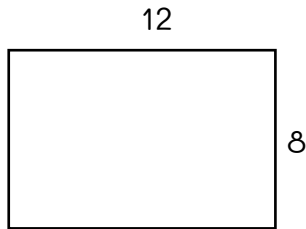- It is a quadrilateral that is n**ot a parallelogram.**

Kite

- Two pairs of **adjacent sides are equal** (Congruent).
- One pair of **opposite angles are equal**.
- The **diagonals of a kite are perpendicular** to each other.
- It is a quadrilateral that is not a parallelogram.

Geometry :Shapes
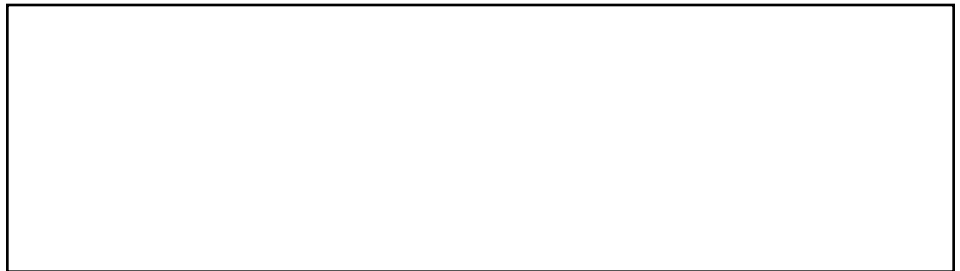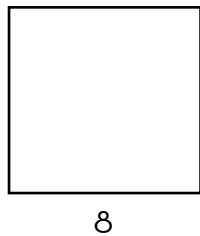## (Quadrilaterals)

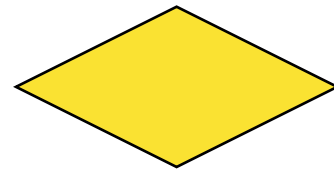### Find out the area of rectangle.

12

8

Find out the perimeter of the square.

8

Which of the following statements is true about rhombus?

❀ It's all sides are congruent.

❀ Opposite sides are parallel.

❀ Any rhombus can also be a square.
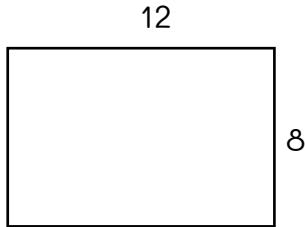
❀ It has all four right angles.

Which of the following statements are NOT true about parallelogram?

❀ It has four congruent sides.

❀ Opposite sides are parallel.

❀ It has four right angles.

❀ Opposite side are equal.

Answer Key

Find out the area of rectangle.

12

8

12 x 8 = 96

Find out the perimeter of the square.

8

8 + 8 + 8 + 8 = 32

Which of the following statements is true about rhombus?

✓ It's all sides are congruent.

□ Opposite sides are parallel.

□ Any rhombus can also be a square.

□ It has all four right angles.

Which of the following statements are NOT true about parallelogram?

✓ It has four congruent sides.

□ Opposite sides are parallel.

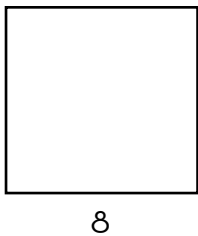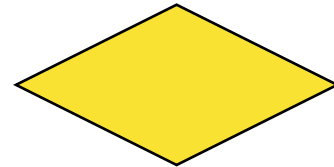✓ It has four right angles.

□ Opposite side are equal.