

# 11. Area of Rhombus

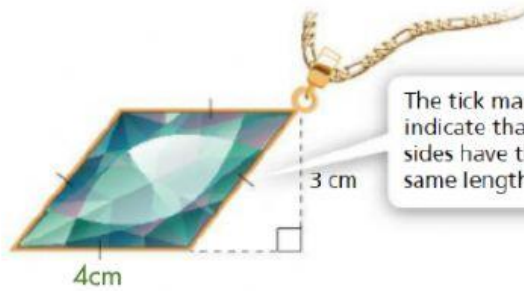
## A. Visual learning

### How can you Find the Area of a Rhombus?

The pendant at the right is the shape of a rhombus with one side of 4cm.

What is the area of the pendant?

A rhombus is a parallelogram with equal sides.



The tick marks indicate that the sides have the same length.

The area of the parallelogram is

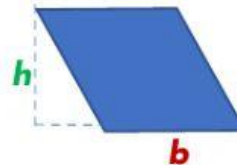
$$A = b \times h$$

$$A = 4 \times 3 = 12\text{cm}^2$$

The area of the pendant is  $12\text{cm}^2$ .

Formula for the area of a rhombus is

$$A = b \times h$$



**b** is the **base** and **h** is the **height** with the same unit of measure.

## B. Vocabulary

parallelogram: \_\_\_\_\_

rhombus: \_\_\_\_\_

formula: \_\_\_\_\_

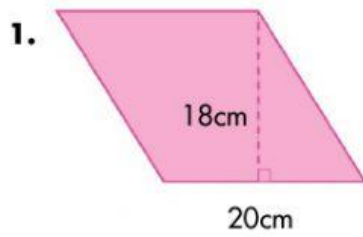
base: \_\_\_\_\_

area: \_\_\_\_\_

height: \_\_\_\_\_

### C. Independent practice

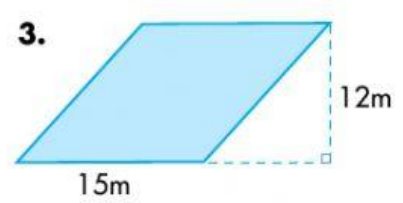
In 1 – 3, find the area of each figure.



A = \_\_\_\_\_  
= \_\_\_\_\_



A = \_\_\_\_\_  
= \_\_\_\_\_



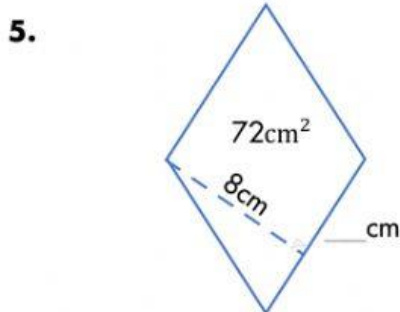
A = \_\_\_\_\_  
= \_\_\_\_\_

4. The area of a kite shaped like a rhombus is  $368\text{cm}^2$ .

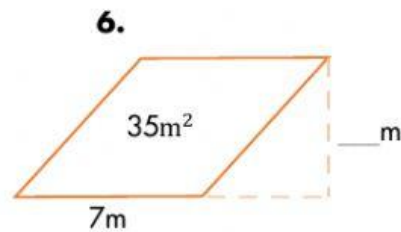
If the length of the base is  $23\text{cm}$ , what is the height?

- A.  $16\text{cm}$                       B.  $18\text{cm}$                       C.  $24\text{cm}$                       D.  $28\text{cm}$

In 5 – 6, find the missing lengths and fill in the blanks.



\_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ = \_\_\_\_\_

7. What is the area of the rhombus highlighted in the origami figure below?

Equation: \_\_\_\_\_

Word answer: \_\_\_\_\_

\_\_\_\_\_

