# 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.

3 cm

4cm
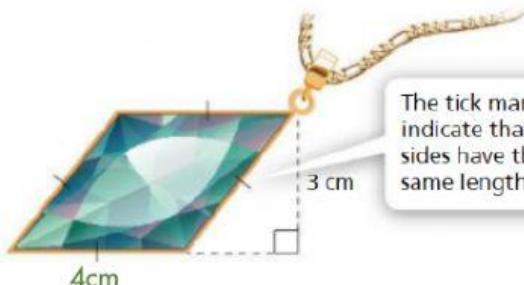
The area of the parallelogram is $A = b \times h$

$$A = 4 \times 3 = 12cm^2$$

The area of the pendant is $12cm^2$.

Formula for the area of a rhombus is

$$A = b \times h$$

h

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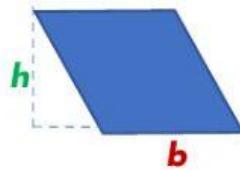
b is the **base** and h is the **height** with the same unit of measure.

B. Vocabulary

parallelogram: _____   rhombus: _____

formula:_____   base:_____

area: _____   height: _____

C. Independent practice

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

1.

18cm

20cm

2.

25dm

30dm

3.

12m

15m

A = _____

= _____

A = _____

= _____

A = _____

= _____
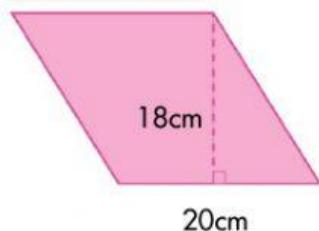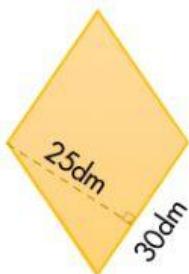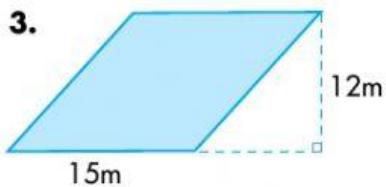
4. The area of a kite shaped like a rhombus is $368cm^2$.

If the length of the base is 23cm, what is the height?

A. 16cm   B. 18cm   C. 24cm   D. 28cm

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

5.

$72cm^2$

8cm

____cm

_____ = _____

6.

$35m^2$

____m
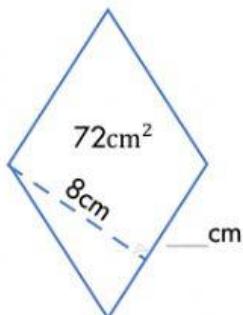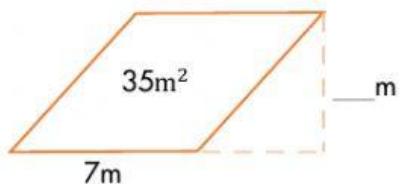
7m

_____ = _____

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

Equation: _____

Word answer: _____

_____

b = 4cm
h = 3cm