9.1 Area of Parallelograms (6.G.1)

Vocabulary

____ – closed figure formed by 3 or more straight line segments.

parallelogram - quadrilateral with opposite sides parallel and opposite sides the same length.

Rhombus

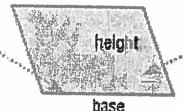
_ – a parallelogram with four equal sides.

Key Concepts: Parallelogram

Area = base • height

OR $(A = b \cdot h)$

The base of a parallelogram can be any one of its sides.



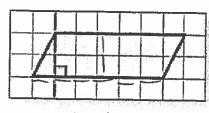
The height is the perpendicular distance from the base to the opposite side.

Step:

- 1.) Write the formula.
- 2.) Fill in the numbers.
- 3.) Answer.

Guided Practice:

Find the area of each parallelogram.



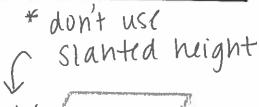
$$A = b \cdot h$$

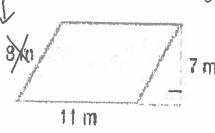
$$A = u \cdot 2$$

$$A = 12 \text{ units}^2$$

$$A = 6.h$$

 $A = 10 + 6.5 + 6.5$
 $A = 50 + 6.5$





$$A = 10.h$$

$$A = 11m \cdot 7m$$

$$A = 77m^{2}$$

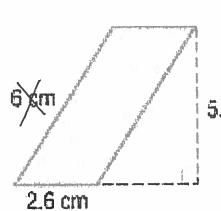
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4.) Find the height of a parallelogram if its base is 35 centimeters and its area is 700 square centimeters.

A=b • h

Partner Talk

The size of the parallelogram piece in a set of tangrams is shown at the right. Find the area of the piece.



5.1 cm

 $A = b \cdot h$ $A = 2.6 \text{ cm} \cdot 5.1 \text{ cm}$ $A = 13.26 \text{ cm}^2$

Building on the Essential Question - How are parallelograms related to rectangles and triangles?

* * rectangle is a type of parallelogram.

* A triangle is half a parallelogram.

Rate Yourself - Are you ready to move on? YES or NO

C Rate yourself! Tiangle