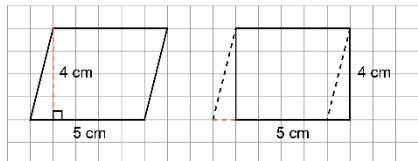


Lesson 5 Assessment

Determining the Area of Parallelograms

Determining the Area of Parallelograms

Explains the relationships between the area of a rectangle and a parallelogram

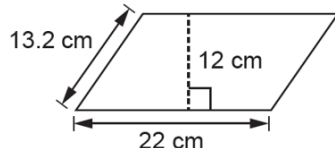


I cut a triangle from end of the parallelogram and moved it to the other end.

The area of the parallelogram was rearranged to form a rectangle, and no area was lost. So, the area of a parallelogram is the same as the area of a rectangle, 20 cm^2 .

$$A = b \times h$$

Determines the area of a parallelogram using the area formula.



$$A = bh$$

$$A = 22 \times 12$$

$$A = 264$$

The are of the parallelogram is 264 cm^2 .

Uses parallelogram area formula to determine a missing measure

What is the base of a parallelogram with area of 36 cm^2 and height of 6 cm?

$$A = bh$$

$$36 = b \times 6$$

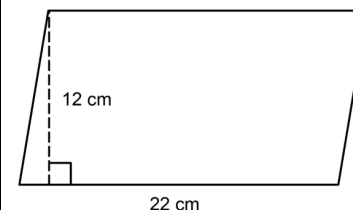
$$\frac{36}{6} = b$$

$$b = 6$$

The base of the parallelogram is 6 cm.

Flexibly solves problems involving the area of parallelograms.

How many of the smaller parallelograms would fit in the larger parallelogram?



Area of smaller parallelogram:

$$A = 2 \text{ cm} \times 3 \text{ cm} = 6 \text{ cm}^2$$

Area of larger parallelogram:

$$A = 22 \text{ cm} \times 12 \text{ cm} = 264 \text{ cm}^2$$

$264 \div 6 = 44$; 44 smaller parallelograms would fit in the larger parallelogram.

Observations/Documentation