

Classwork 19

NEW MATERIAL



What are you trying to find in the exercise above? Does it matter what units of measure do we use?

Area and units of area

Area is a measure of how much surface is covered by a particular object or figure. The square with a unit side is used as a unit of measure for area.

Every unit of **length** has a corresponding unit of area, namely the area of a square with the given **side length**. Thus areas can be measured in square meters (m²), square centimeters (**cm**²), **square millimeters** (mm²), square kilometers (km²), square feet (ft²), square yards (yd²), square miles (mi²), and so forth

Here is a rectangle that is 2 units wide and 3 units long and has an area (A) of 6 square units. It can be calculated in two ways:

a)
$$2 \times 3 = 6$$
 b) $3 \times 2 = 6$



3.

If the unit length is 1 cm, then the area of a single square will be 1 cm \times 1 cm = 1 cm² Express in cm²

$1 \text{ dm} = \underline{\qquad} \text{cm}$	$1m = \dm = \cm$
$1 \text{ cm} \times 1 \text{ cm} = 1 \text{ cm}^2$	$1m^2 = 10dm \ge 10dm = 100 dm^2$
$1 \text{ dm}^2 = 10 \text{ cm} \times 10 \text{ cm} = 100 \text{ cm}^2$	$1m^2 = 100cm \times 100cm = 10,000 cm^2$
$5 \text{ dm}^2 = \underline{\qquad} \text{ cm}^2$	$2 m^2 = \ dm^2$
$3 \text{ dm}^2 = ___ \text{ cm}^2$	$300 \text{ dm}^2 = _\ \text{m}^2$
$300 \text{ cm}^2 = \ \text{dm}^2$	$500 \text{ dm}^2 = _\m^2$
$2 \text{ dm}^2 = \underline{\qquad} \text{ cm}^2$	$7 \text{ m}^2 = ___ \text{ cm}^2$
$800 \text{ cm}^2 = \underline{\qquad} \text{ dm}^2$	

	Lesson 19 Reflection Symmetry, Area	2018-19									
	$7 \text{ dm}^2 = ___ \text{ cm}^2$										
Are	Area is the size of a figure. It helps to imagine how much paint would cover the shape.										
4.											
	a) A gardener builds a flowerbed that is 6 me the area of the flowerbed?	ters long and three meters wide. What is									
	b) Mr. Smith wants to tile the kitchen floor. How many one-meter square tiles will he need if his kitchen is 3 m long and 2 m wide?										
	c) Lisa's bedroom is 6 meters long and 4 meters wide. How much carpet will Lisa need to cover the floor of her bedroom?										
	d) Find the perimeter and area of a rectangle with width 6cm and length 10 cm.										
	The Commutative property of multiplication together, the product is the same regard	n says that when two numbers multiplied lless of the order of multiplicands.									
	When we	add:									
	$\mathbf{a} + \mathbf{b} = \mathbf{b}$	+ a									
	• • • • • • •										
	6 + 3	3 + 6									
	When we m	ultiply:									
	$\mathbf{a} \times \mathbf{b} = \mathbf{b}$	×a									
	2×4 ³	4 × 2									

5. Use the commutative property of multiplication to find missing numbers: $3 \times 1 = 1 \times = _$ $5 \times 10 = \times 5 = _$ $7 \times 8 = \times = _$ 6. Using any grid paper draw rectangles with an A (area) equal to: a) 12 unit squares b) 20 unit squares How many rectangles you can draw in each case? a) b) Calculate a perimeter (P) for each rectangle. What did you notice? a) b) Calculate a perimeter (P) for each rectangle. What did you notice? a) b) b) b) for each rectangle. What did you notice? a) b) for each rectangle. What did you notice? a) b) for each rectangle is a start of the top of the		Lesson 19 Reflection Symmetry, Area 2018-19																											
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