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Mathematics
Quarter 4 – Module 71:
Finding the Area of Rectangle and Square

ALTERNATIVE DELIVERY MODE
ADM

Department of Education • Republic of the Philippines

Mathematics – Grade 3
Alternative Delivery Mode
Quarter 4 – Module 71: Finding the Area of Rectangle and Square
First Edition, 2019

Published by the Department of Education
Secretary:
Undersecretary:
Assistant Secretary:

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Editor: Name

Reviewers: Name

Illustrator: Name

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Management Team: Name

Printed in the Philippines by _____

Department of Education – Bureau of Learning Resources (DepEd-BLR) **(Sample)**

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Quarter 4 – Module 71:
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Introductory Message

For the facilitator:

This gives an instruction to the facilitator to orient the learners and to support the parents, elder sibling etc. of the learners on how to use the module. Furthermore, this also instructs the facilitator to remind the learners to use separate sheets in answering the pre-test, self-check exercises, and post-test.)

For the learner:

This communicates directly to the learners and hence, must be interactive. This contains instructions on how to use the module. The structure and the procedure of working through the module are explained here. This also gives an overview of the content of the module. If standard symbols are used to represent some parts of the module such as the objectives, input, practice task and the like they are defined and explained in this portion.

What I Need to Know

This module is designed and written with you in mind. In many aspects of your life you may wonder how wide or narrow the space around you. In this module you will discover how to measure areas of a square and a rectangle.

After going through this module, you are expected to:

1. derive the formula of the area of a square and a rectangle;
2. find the area of a square and a rectangle in square centimeter and square meter.
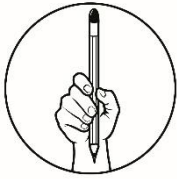
What I Know

Directions: Choose the correct answer from the given choices. Write only the letter in a separate sheet of paper.

1. What is the area of rectangle if its length is 12cm and its width is 4cm ?
   a. 34 cm²
   b. 48 cm²
   c. 53cm²
   d. 65cm²

2. Each side of the square is 14cm, what is the area?
   a. 179 cm²
   b. 196 cm²
   c. 156 cm²
   d. 167 cm²

3. Find the area of the rectangle.

   14m

   8m
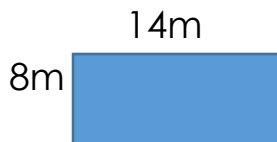
4. Find the area of the square

   19cm

5. Shiela aims to swim to a pool that measures 6 m wide and 12 m in length, what is its area?

_____

Lesson — Finding the Area of Rectangle and Square

In this lesson you learn how to get the area of a square and rectangle. Some of the things you have or places you have visited are often measured in area. It is for you to find out while learning in this lesson.

What's In

Choose the appropriate unit of measurement whether it is square centimeter(sq. cm) or square meter (sq. m) in finding the area of the following:

1. Room   _____
2. Tile   _____
3. Book   _____
4. Cartolina _____
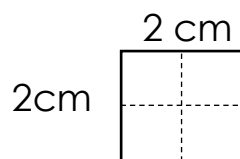5. Table   _____

What's New

Activity 1

Study the rectangle.   Study the square
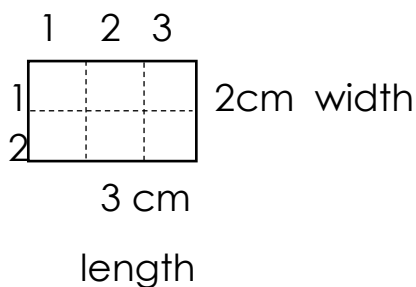
What is the length and width of the rectangle?

length_____   width_____

What operation will make the number sentence 3 ◯ 2 = 6 cm²?

How many square units is the square?

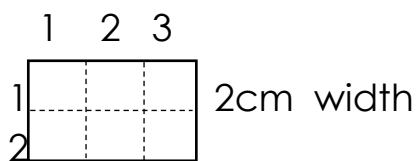What operation will make the number sentence 2 ◯ 2= 4 cm² true?

What is It

Rectangle

The length of the rectangle is 3cm.

The width of the rectangle is 2 cm.

```
 1   2   3
1 ┌───┬───┬───┐  2cm  width
  ├───┼───┼───┤
2 └───┴───┴───┘
```

If we connect the marks on opposite sides we will find that there are 6 square centimeters.

$$3 \quad x \quad 2 \quad = 6 \text{ sq cm}$$

length   width   Area

To find the area of a rectangle, multiply the length of one side by the length by the width.

We can write this as a formula.

A = L   x   W

Area Length   Width

Since both the length and the width use cm as unit of measures, the area should carry sq cm or cm^2 or square centimetre.

Square

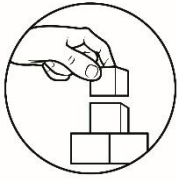The square has 2 sides with 2 units.

2 cm

2cm
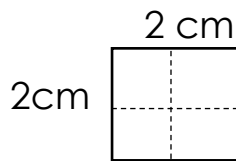
If we connect the marks on opposite sides, we will find that the area of the square is 4 square units.

To find the area of the square multiply the length of one side to the length of the other side.

$$2 \quad x \quad 2 \quad = 4 \text{ sq. units}$$

Side   Side   Area

We can write this as a formula.

$$A= S \quad X \quad S$$

What's More

Activity 2

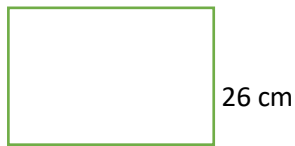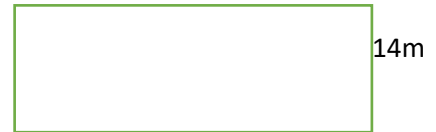Find the area. Write your answer on a separate sheet of paper.

1.)   12 cm

2.)   42 cm

3.)   54 m

26 cm

14m

A= S X S

A= L x W

A = L x W

_____

_____

_____

_____

_____

_____
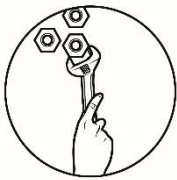
4.) L= 32 cm

W= 16 cm

A=_____

5.) L= 47 m

W= 65 m

A= _____

What I Have Learned

In finding the area of a square, use   A= S x S

In finding the area of a rectangle, use A=L x W

Area should be expressed in square units.

What I Can Do

Activity 4

Leah Mae and her classmates were given an assignment to measure the area of some of the things they see at home. Help her do the task by completing the table below

	Length	Width	Area
door	5 m	2m	
chopping board	15cm		150 sq. cm
flat screen TV	36 cm	18cm	

	Sides	Area
Table	3 m	
Carpet	445 cm	

 Assessment

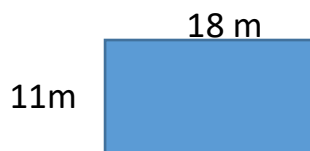Analyse each problem carefully and find the area. Write your answer on a separate sheet of paper.

1.) If   Quencyvels` book has a length of 36 cm and width of 14 cm, what is its area?

      a. 489 sq. cm
      b. 504 sq. cm
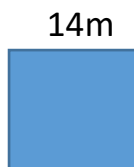   c.   631sq. cm
      d. 778 sq. cm

2.) If the cake measures 45 cm in each side, what is its area?

      a. 3 000 sq. cm
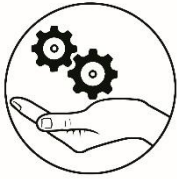   b. 4 213 sq. cm
      c. 3 000sq. cm
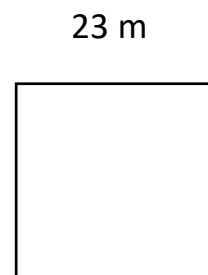   d. 2 025 sq. cm

3.) Find the area of the rectangle.

18 m

11m

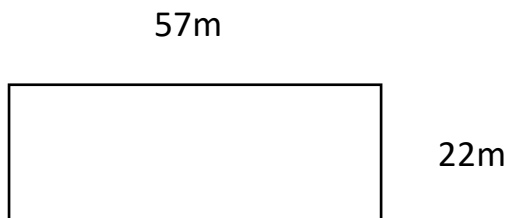4.) Find the area of square.

14m
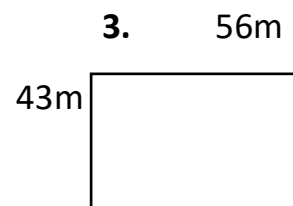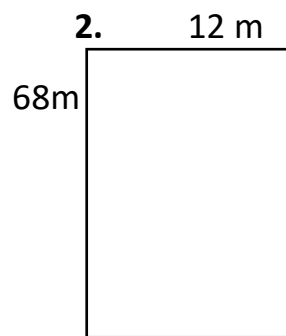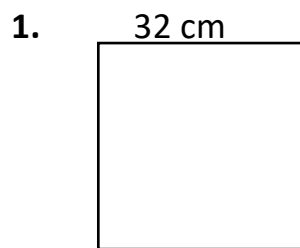

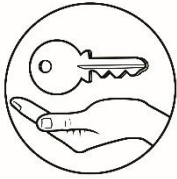5.) Ace wants to swim to a pool with a width of 18 meters and length of 78 meters, what is its area?

_____

Activity 5

Find the area of the given figures. Write your answer in a separate sheet of paper.

1.   32 cm

2.   12 m
68m

3.   56m
43m

57m
22m

23 m

Answer Key

What I Know	What's More	Assessment
1. D	1. 144 sq. cm	1. A
2. B	2. 1 092 sq. cm	2. D
3. 112 sq. m	3. 756 sq. m	3. 198 sq. m
4. 361 sq. cm	4. 512 sq. cm	4. 196 sq. m
5. 72 sq. m	5. 3,055 sq.cm	5. 100 m

References

Coronel, Carmelita C. et al. XL Excelling in Mathematics 3. Vibal Publishing
House, Inc 2007.
DepEd Teachers Guide Math 3, (pp.306-211)

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