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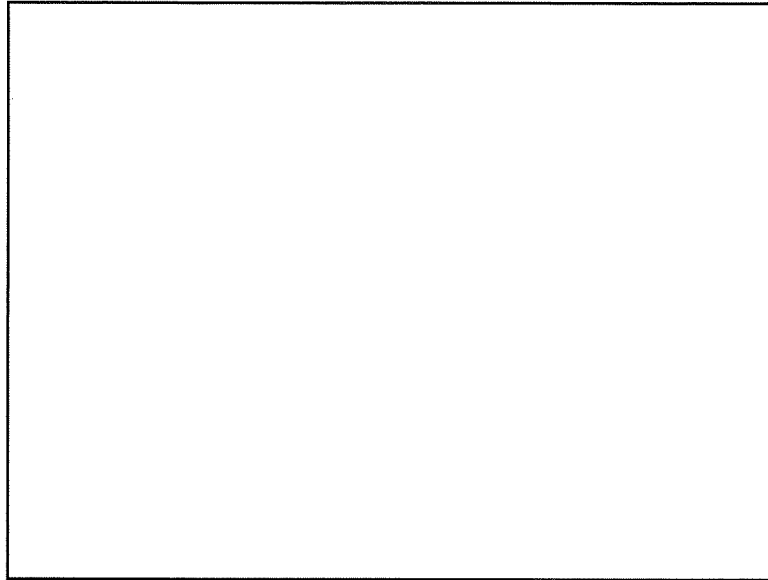
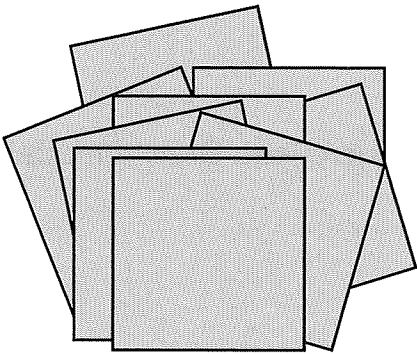
Day #3  
Extended Learning

# Common Core Standards Practice

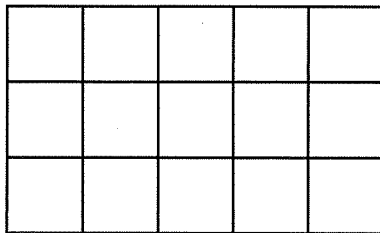
**3.MD.C.5a** Recognize area as an attribute of plane figures and understand concepts of area measurement. A square with side length 1 unit, called "a unit square," is said to have "one square unit" of area, and can be used to measure area.

**3.MD.C.5b** Recognize area as an attribute of plane figures and understand concepts of area measurement. A plane figure which can be covered without gaps or overlaps by  $n$  unit squares is said to have an area of  $n$  square units.

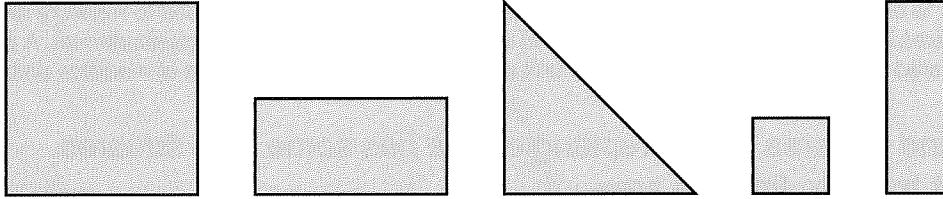
1. Alicia is to find the area of this rectangle. She has some inch squares. Tell her what to do to find the area.



2. Hudson completely covers a rectangle with unit squares as shown below. What is the area of the rectangle? How do you know?



3. Which of these objects can Milly use to find the area of a square?  
Explain your answer.



4. Cassie has a new rug in her bedroom. The rug is 9 square feet. Draw a model of Cassie's new rug. Show that it is 9 square feet.

5. Circle the units used to measure area.

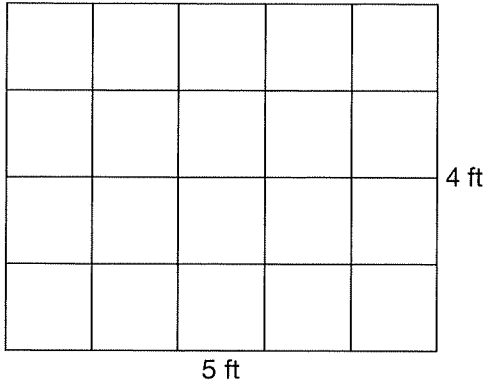
feet	square inches	centimeters
square meters	square feet	meters

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# Common Core Standards Practice

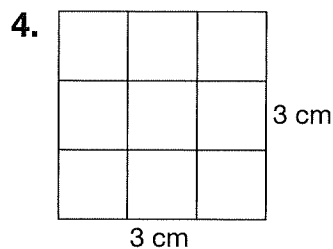
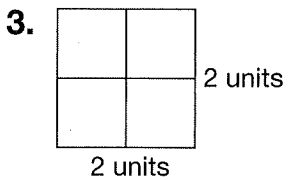
3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).

1. What is the area of the rectangle below?

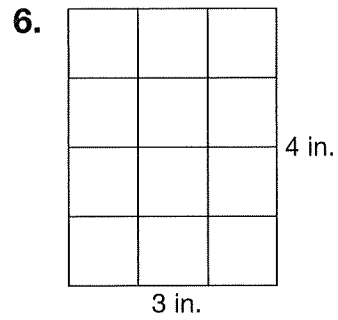
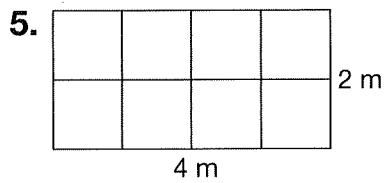


2. Explain how you found the area of the rectangle.

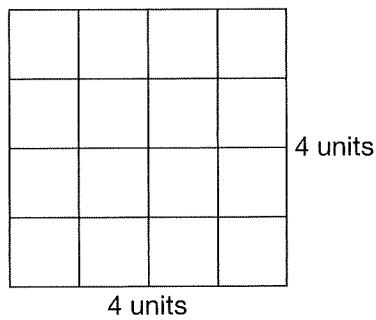
Find the area of each figure. Be sure to use the correct units.



Find the area of each figure. Be sure to use the correct units.

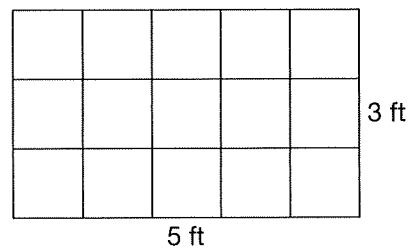


7. What is the area of the square shown below?



- A 4 square units
- B 8 square units
- C 12 square units
- D 16 square units

8. What is the area of the rectangle shown below?



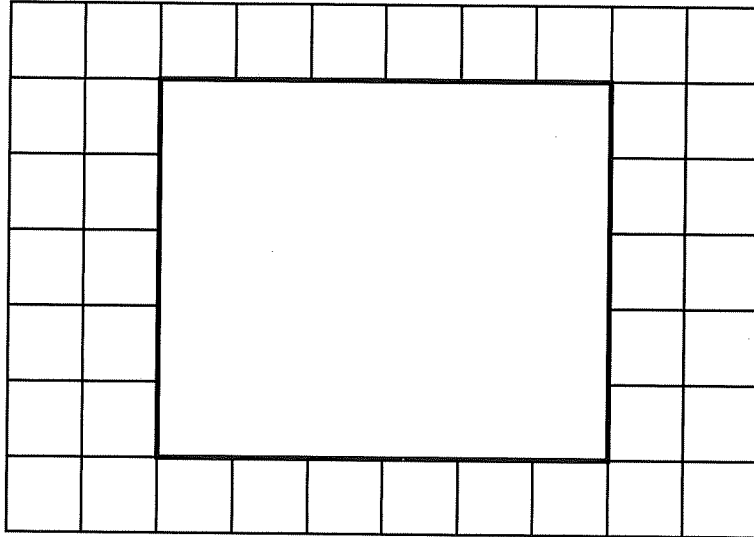
- A 8 square feet
- B 12 square feet
- C 15 square feet
- D 18 square feet

Name \_\_\_\_\_

# Common Core Standards Practice

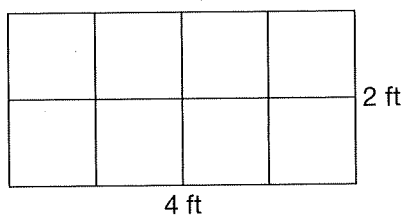
**3.MD.C.7a** Relate area to the operations of multiplication and addition. Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.

Look at the rectangle on the grid.



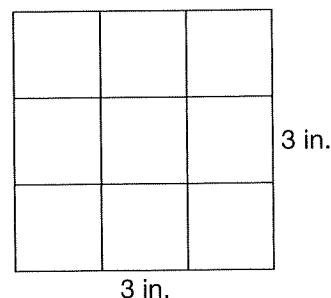
1. What is the area of the rectangle above? Tell how you know.
2. What is the length of the rectangle above? Tell how you determined the length.
3. What is the height of the rectangle above? Tell how you determined the height.
4. How does the product of the length and height relate to the number of squares that the rectangle covers?

5. Look at the rectangle below.



- a. How many squares cover the rectangle?
- b. Multiply the length and the width of the rectangle. What answer do you get?
- c. What do you notice about the answers in part a and part b? What does that tell you about finding the area?

6. a. Give two different ways to find the area of the square.



b. Use both ways to find the area of the square.

**First way:** Area =

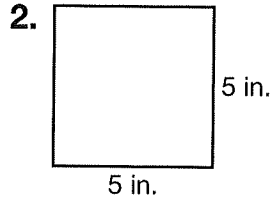
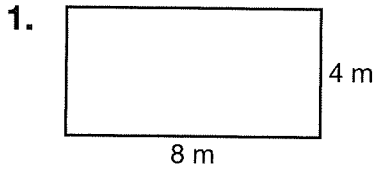
**Second way:** Area =

c. Do you get the same answer? Why?

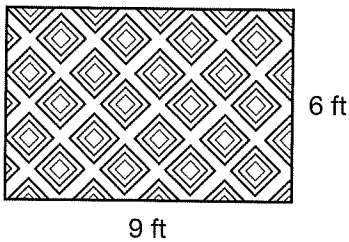
# Common Core Standards Practice

**3.MD.C.7b** Relate area to the operations of multiplication and addition. **b.** Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.

**Find the area of each square or rectangle.**

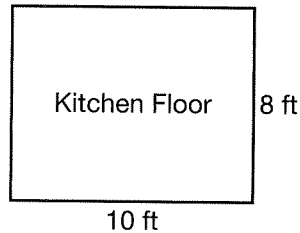


3. A rug is shaped like a rectangle. The length of the rug is 9 feet, and the width is 6 feet. What is the area of the rug?



- A 30 square ft
- B 15 square ft
- C 54 square ft
- D 63 square ft

4. Ms. Leonard plans to put square tiles on her kitchen floor. Each tile covers 1 square foot and costs \$1. How much will the tiles for the floor cost?



5. Troy wants to make a pen for his rabbits. The pen will be a rectangle with an area of 24 square meters. Answer Yes or No if the length and width could be the dimensions of Troy's rabbit pen.

<b>A</b> length: 2 m, width: 6 m	YES	NO
<b>B</b> length: 3 m, width: 8 m	YES	NO
<b>C</b> length: 5 m, width: 5 m	YES	NO
<b>D</b> length: 4 m, width: 6 m	YES	NO

6. Izzie is planting a garden. Her garden is shaped like a rectangle. The length is 7 feet, and the width is 3 feet.

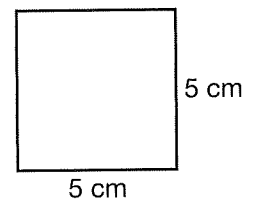
a. Draw a picture of Izzie's garden. Label the length and width.

b. What is the area of Izzie's garden?

Area =

7. The drawing shows the lid of a box. Lorrie is gluing square tiles to the lid. Each tile has an area of 1 square centimeter.

a. How many tiles will Lorrie need to completely cover the lid?



b. Explain how you found your answer.