

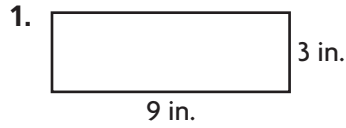
Name _____

Perimeter



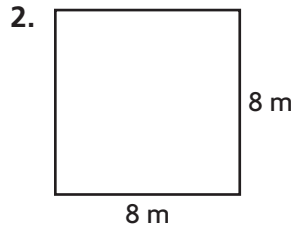
COMMON CORE STANDARD—4.MD.3
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

Find the perimeter of the rectangle or square.

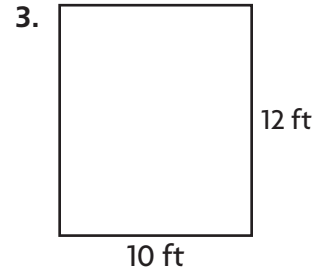


$$9 + 3 + 9 + 3 = 24$$

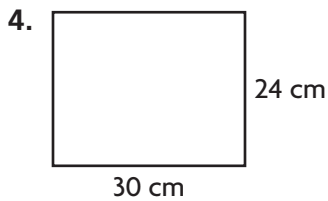
24 inches



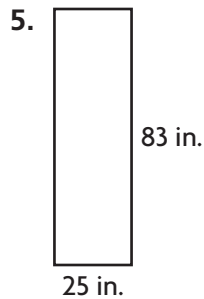
_____ meters



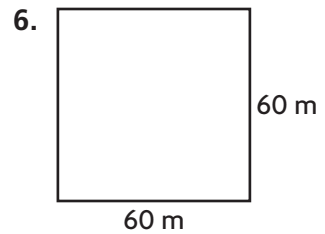
_____ feet



_____ centimeters



_____ inches



_____ meters

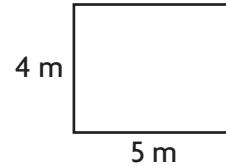
Problem Solving

7. Troy is making a flag shaped like a square. Each side measures 12 inches. He wants to add ribbon along the edges. He has 36 inches of ribbon. Does he have enough ribbon? **Explain.**

8. The width of the Ochoa Community Pool is 20 feet. The length is twice as long as its width. What is the perimeter of the pool?

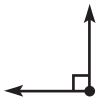
Lesson Check (4.MD.3)

1. What is the perimeter of a square window with sides 36 inches long?
2. What is the perimeter of the rectangle below?



Spiral Review (4.NF.7, 4.MD.1, 4.MD.5a, 4.MD.5b, 4.G.3)

3. Natalie drew the angle below.



What is the most reasonable estimate for the measure of the angle Natalie drew?

4. Ethan has 3 pounds of mixed nuts. How many ounces of mixed nuts does Ethan have?

5. How many lines of symmetry does the shape below appear to have?



6. Janna drank 0.7 liter of water before soccer practice and 0.70 liter of water after practice. Compare the two decimals using $<$, $=$, or $>$.

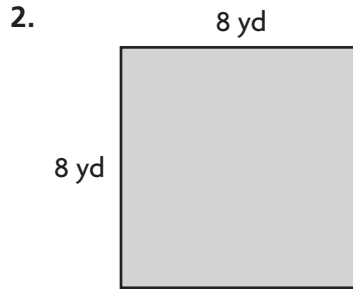
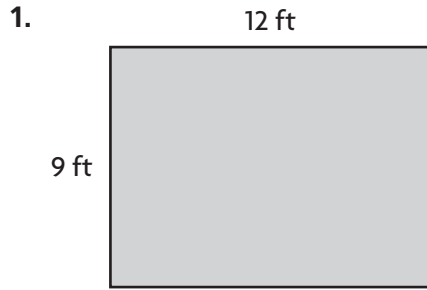
Name _____

Area



COMMON CORE STANDARD—4.MD.3
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

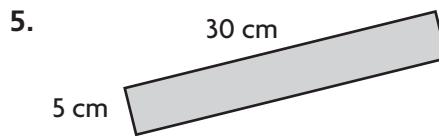
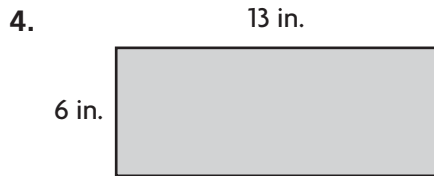
Find the area of the rectangle or square.



$$A = b \times h$$

$$= 12 \times 9$$

108 square feet



Problem Solving



7. Meghan is putting wallpaper on a wall that measures 8 feet by 12 feet. How much wallpaper does Meghan need to cover the wall?

8. Bryson is laying down sod in his yard to grow a new lawn. Each piece of sod is a 1-foot by 1-foot square. How many pieces of sod will Bryson need to cover his yard if his yard measures 30 feet by 14 feet?

Lesson Check (4.MD.3)

1. Ellie and Heather drew floor models of their living rooms. Ellie's model represented 20 feet by 15 feet. Heather's model represented 18 feet by 18 feet. Whose floor model represents the greater area? How much greater?
2. Tyra is laying down square carpet pieces in her photography studio. Each square carpet piece is 1 yard by 1 yard. If Tyra's photography studio is 7 yards long and 4 yards wide, how many pieces of square carpet will Tyra need?

Spiral Review (4.NBT.5, 4.NF.4c, 4.MD.3)

3. Typically, blood fully circulates through the human body 8 times each minute. How many times does blood circulate through the body in 1 hour?
4. Each of the 28 students in Romi's class raised at least \$25 during the jump-a-thon. What is the least amount of money the class raised?
5. What is the perimeter of the shape below if 1 square is equal to 1 square foot?
6. Ryan is making small meat loaves. Each small meat loaf uses $\frac{3}{4}$ pound of meat. How much meat does Ryan need to make 8 small meat loaves?



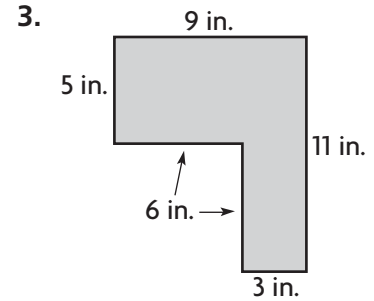
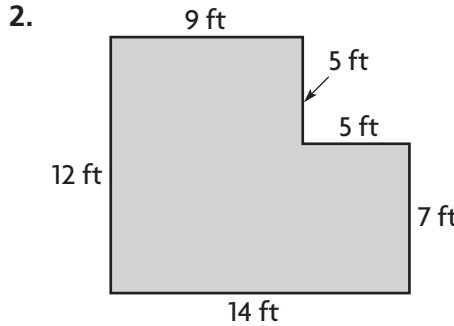
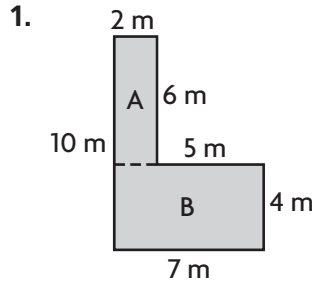
Name _____

Area of Combined Rectangles

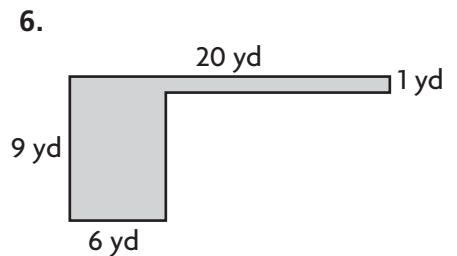
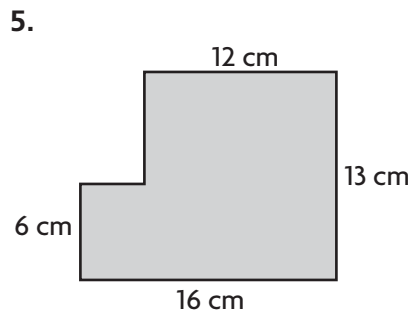
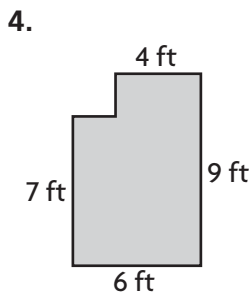


COMMON CORE STANDARD—4.MD.3
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

Find the area of the combined rectangles.



Area A = 2×6 ,
Area B = 7×4
 $12 + 28 = 40$
40 square meters

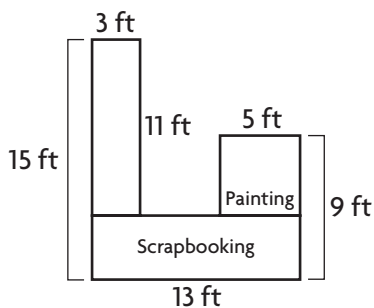


Problem Solving



Use the diagram for 7–8.

Nadia makes the diagram below to represent the counter space she wants to build in her craft room.

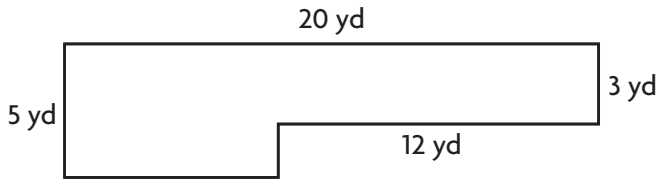


7. What is the area of the space that Nadia has shown for scrapbooking?

8. What is the area of the space she has shown for painting?

Lesson Check (4.MD.3)

1. What is the area of the combined rectangles below?



2. Marquis is redecorating his bedroom. What could Marquis use the area formula to find?

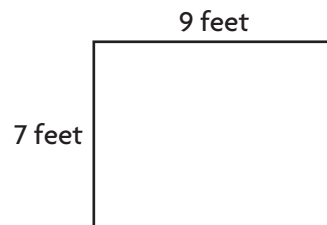
Spiral Review (4.OA.4, 4.MD.1, 4.MD.3)

3. Giraffes are the tallest land animals. A male giraffe can grow as tall as 6 yards. How tall would the giraffe be in feet?

4. Drew purchased 3 books each with a different price, for \$24. The cost of each book was a multiple of 4. What could be the prices of the 3 books?

5. Esmeralda has a magnet in the shape of a square. Each side of the magnet is 3 inches long. What is the perimeter of her magnet?

6. What is the area of the rectangle below?



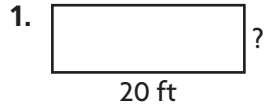
Name _____

Find Unknown Measures



COMMON CORE STANDARD—4.MD.3
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

Find the unknown measure of the rectangle.



Perimeter = 54 feet

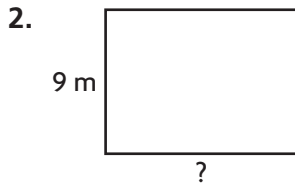
width = 7 feet

Think: $P = (2 \times l) + (2 \times w)$

$$54 = (2 \times 20) + (2 \times w)$$

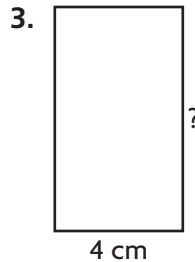
$$54 = 40 + (2 \times w)$$

Since $54 = 40 + 14$, $2 \times w = 14$, and $w = 7$.



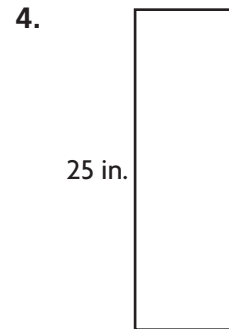
Perimeter = 42 meters

length = _____



Area = 28 square centimeters

height = _____



Area = 200 square inches

base = _____

Problem Solving



5. Susie is an organic vegetable grower. The perimeter of her rectangular vegetable garden is 72 yards. The width of the vegetable garden is 9 yards. How long is the vegetable garden?

6. An artist is creating a rectangular mural for the Northfield Community Center. The mural is 7 feet tall and has an area of 84 square feet. What is the length of the mural?

Lesson Check (4.MD.3)

1. The area of a rectangular photograph is 35 square inches. If the width of the photo is 5 inches, how tall is the photo?
2. Natalie used 112 inches of blue yarn as a border around her rectangular bulletin board. If the bulletin board is 36 inches wide, how long is it?

Spiral Review (4.NF.3d, 4.MD.2, 4.MD.3, 4.MD.5a, 4.MD.5b)

3. A professional basketball court is in the shape of a rectangle. It is 50 feet wide and 94 feet long. A player runs one time around the edge of the court. How far does the player run?
4. On a compass, due east is a $\frac{1}{4}$ turn clockwise from due north. How many degrees are in a $\frac{1}{4}$ turn?
5. Hakeem's frog made three quick jumps. The first was 1 meter. The second jump was 85 centimeters. The third jump was 400 millimeters. What was the total length in centimeters of the frog's three jumps?
6. Karen colors in squares on a grid. She colored $\frac{1}{8}$ of the squares blue and $\frac{5}{8}$ of the squares red. What fraction of the squares are not colored in?

Name _____

Problem Solving • Find the Area



COMMON CORE STANDARD—4.MD.3
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

Solve each problem.

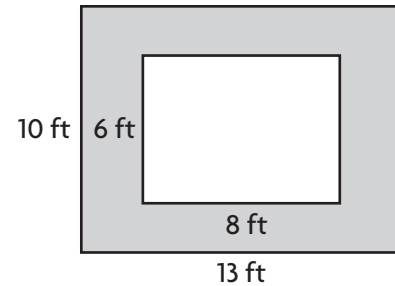
1. A room has a wooden floor. There is a rug in the center of the floor. The diagram shows the room and the rug. How many square feet of the wood floor still shows?

82 square feet

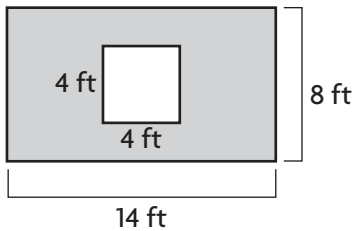
Area of the floor: $13 \times 10 = 130$ square feet

Area of the rug: $8 \times 6 = 48$ square feet

Subtract to find the area of the floor still showing: $130 - 48 = 82$ square feet

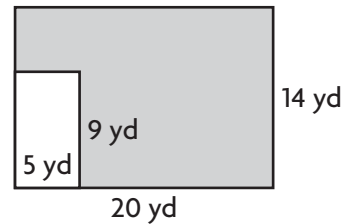


2. A rectangular wall has a square window, as shown in the diagram.



What is the area of the wall NOT including the window?

3. Bob wants to put down new sod in his backyard, except for the part set aside for his flower garden. The diagram shows Bob's backyard and the flower garden.



How much sod will Bob need?

4. A rectangular painting is 24 inches wide and 20 inches tall without the frame. With the frame, it is 28 inches wide and 24 inches tall. What is the area of the frame not covered by the painting?

5. One wall in Jeanne's bedroom is 13 feet long and 8 feet tall. There is a door 3 feet wide and 6 feet tall. She has a poster on the wall that is 2 feet wide and 3 feet tall. How much of the wall is visible?

Lesson Check (4.MD.3)

1. One wall in Zoe's bedroom is 5 feet wide and 8 feet tall. Zoe puts up a poster of her favorite athlete. The poster is 2 feet wide and 3 feet tall. How much of the wall is not covered by the poster?
2. A garage door is 15 feet wide and 6 feet high. It is painted white, except for a rectangular panel 1 foot high and 9 feet wide that is brown. How much of the garage door is white?

Spiral Review (4.OA.4, 4.NF.2, 4.MD.2, 4.MD.3)

3. Kate made a box to hold her jewelry collection. She used 42 inches of wood to build the sides of the box. If the box was 9 inches wide, how long was the box?
4. Larry, Mary, and Terry each had a full glass of juice. Larry drank $\frac{3}{4}$ of his. Mary drank $\frac{3}{8}$ of hers. Terry drank $\frac{7}{10}$ of his. Who drank less than $\frac{1}{2}$ of their juice?
5. List all of the numbers between 20 and 30 that are prime.
6. Tom and some friends went to a movie. The show started at 2:30 P.M. and ended at 4:15 P.M. How long did the movie last?