

NAME _____

DATE

1/24/12

Set D6 ★ Independent Worksheet 1

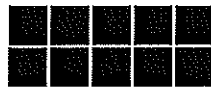


INDEPENDENT WORKSHEET

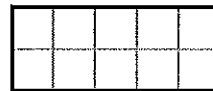
Area & Perimeter Review

Perimeter is the distance all the way around a figure. Perimeter is measured in linear units like centimeters, meters, inches, feet, and yards.

Area is the amount of surface a figure covers. Area is measured in square units like square centimeters, square meters, square inches, square feet, and square yards.



Area

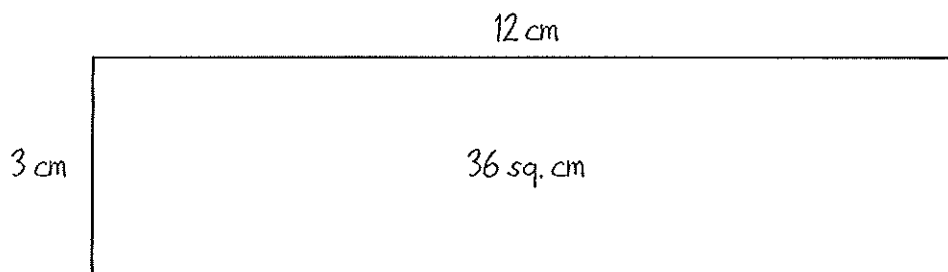


Perimeter

1 Use the centimeter side of your ruler to measure the dimensions (the length and width) of each rectangle on the next page. Then find its area and perimeter using the formulas below. Show your work.

- Perimeter = $(2 \times \text{the width}) + (2 \times \text{the length})$ or $P = (2 \times w) + (2 \times l)$
- Area = length \times width or $A = l \times w$

example

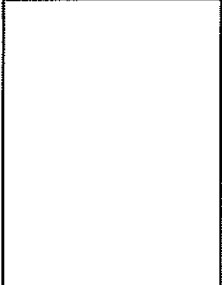

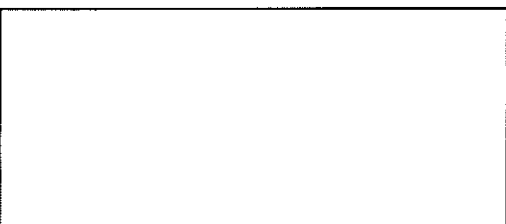



Perimeter: $(2 \times 3) + (2 \times 12) = 30 \text{ cm}$

Area: $12 \times 3 = 36 \text{ sq. cm}$

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Independent Worksheet 1 Area & Perimeter Review (cont.)

<p>a</p>  <p>Perimeter: Area:</p>	<p>b</p>  <p>Perimeter: Area:</p>
<p>c</p>  <p>Perimeter: Area:</p>	<p>d</p>  <p>Perimeter: Area:</p>

2 Jamie says you only need to measure one side of a square to find its perimeter. Do you agree with her? Why or why not? Use numbers, labeled sketches, and words to explain your answer.

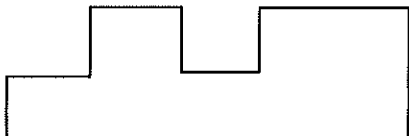
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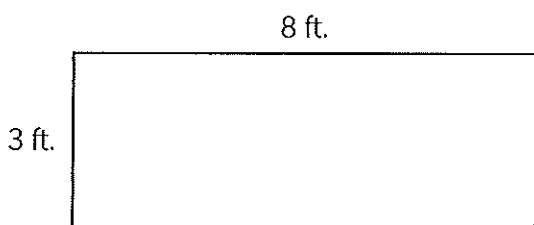
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Independent Worksheet 1 Area & Perimeter Review (cont.)

3 Hector says you have to measure the length of every side of this figure to find its perimeter. Do you agree with him? Why or why not? Use numbers, labeled sketches, and words to explain your answer.



4 Which equation shows how to find the perimeter of this rectangle?



- $3 \times 8 = 24$ ft.
 $(2 \times 3) + 8 = 14$ ft.
 $(2 \times 3) + (2 \times 8) = 22$ ft.
 $4 + 8 = 12$ ft.

5 Mr. Hunter is trying to find the distance from one end of his whiteboard to the other. Mr. Hunt is measuring:



- the board's area
 the board's length
 the board's perimeter

6 Which of these situations is about perimeter?

- determining the number of tiles needed to cover a floor
 determining how many feet of fencing is needed to surround a rectangular yard
 determining the width of a table

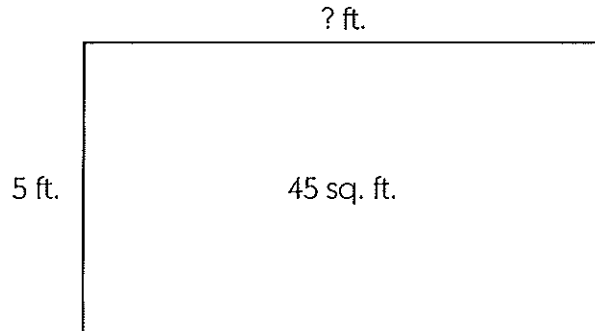
7 Beckett and his mom are going to paint the living room. They need to measure the room so they know how much paint to buy. They should measure the wall in:

- square centimeters
 square feet
 square inches
 square miles

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Independent Worksheet 1 Area & Perimeter Review (cont.)

8 This rectangle has an area of 45 square feet. What is the missing measure? Show your work.



9 Tom wants to find the area of his school's basketball court. Which formula should he use? (circle one)

$A = l + w$ $A = l \times w$ $A = l - w$ $A = (2 \times w) + (2 \times l)$

10 Alexandra and her dad build a deck in their backyard. It had an area of 48 square feet and a perimeter of 28 feet. Circle the drawing that shows the deck they built. Use numbers, labeled sketches, and words to explain your answer.

