

Perimeter and Area

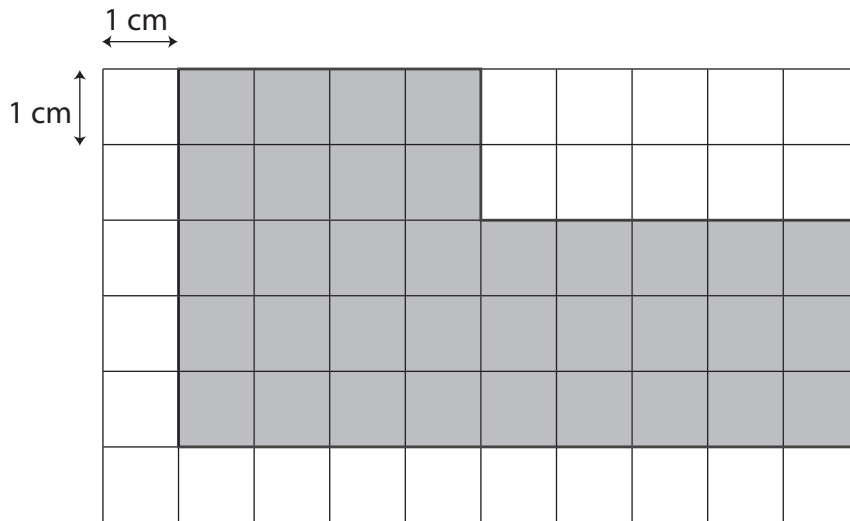
- The **perimeter** of a shape is the distance around the shape. If you cut a piece of string so that it wraps exactly around the shape, then the length of the string is the perimeter of the shape.
- The **area** of a shape in square units is the number of 1-unit-by-1-unit squares it takes to cover the shape without gaps or overlaps. Some squares might have to be cut apart and rearranged to cover the shape exactly.

The Perimeter and Area Rap

Perimeter, perimeter
is the distance around!
Area, area
is what covers the ground!

Circle the correct answers

1. If Elena wants to know how much wood she will need to make the floor of a turtle cage, will she need to know the area or the perimeter or the turtle cage?
Area Perimeter
2. Which US Customary unit would be best to use to describe how much wood Elena would need for the floor of the turtle cage?
gallons; feet; square feet; square miles; pounds; inches
3. Elena will make the sides of a turtle cage by cutting pieces of wood from a long board and attaching the pieces of wood to the floor of the turtle cage. To know how long a board Elena will need, will she need to know the area or the perimeter of the turtle cage?
Area Perimeter
4. Which metric unit would be best to use to describe how long a board Elena would need to make the sides of a turtle cage?
liters; meters; kilograms; kilometers; square meters; square kilometers
5. If Santiago is going to cover the floor of his room with carpet, will he need to know the area or the perimeter of his room?
Area Perimeter
6. Which US Customary unit would be best to use to describe how much carpet Santiago would need?
square feet; miles; pounds; square miles; gallons; inches



7. Which expressions tell us the perimeter, in centimeters, of the shaded shape above? Circle the *two* correct answers.

(a) $5 + 9 + 3 + 5 + 2 + 4$

(b) $4 \times 9 + 2 \times 3$

(c) $4 \times 2 \times 5 \times 3 \times 9 \times 5$

(d) $2 \times 4 + 3 \times 9$

(e) $5 \times 4 + 3 \times 5$

(f) $4 + 2 + 5 + 3 + 9 + 5$

8. Find the perimeter of the shape above by finding the value of the expressions you chose in problem 1.

9. Which expressions tell us the the area, in square centimeters, of the shaded shape above? Circle the *two* correct answers.

(a) $5 + 9 + 3 + 5 + 2 + 4$

(b) $4 \times 9 + 2 \times 3$

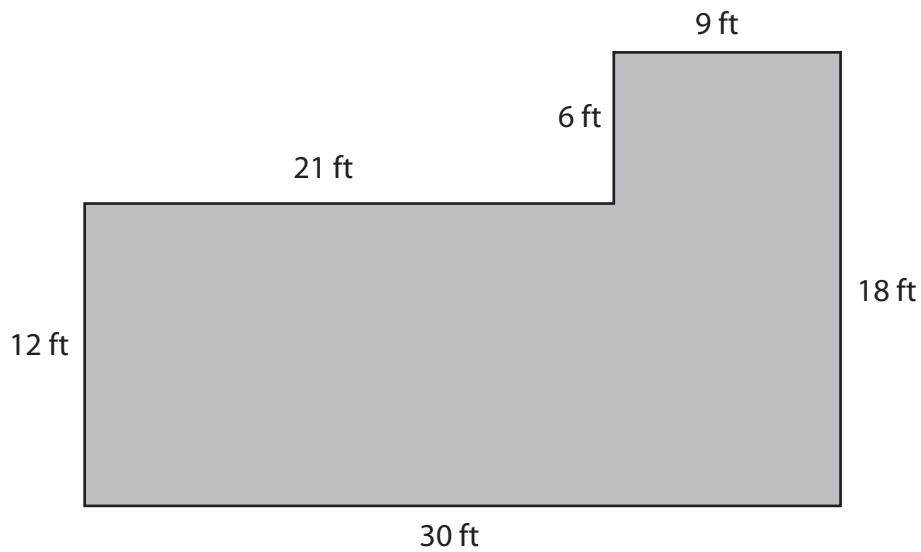
(c) $4 \times 2 \times 5 \times 3 \times 9 \times 5$

(d) $2 \times 4 + 3 \times 9$

(e) $5 \times 4 + 3 \times 5$

(f) $4 + 2 + 5 + 3 + 9 + 5$

10. Find the area of the shape above by finding the value of the expressions you chose in problem 3.



11. Find the area of the room whose floor plan is shown above. Show your work. Don't forget to use the appropriate unit in your answer.

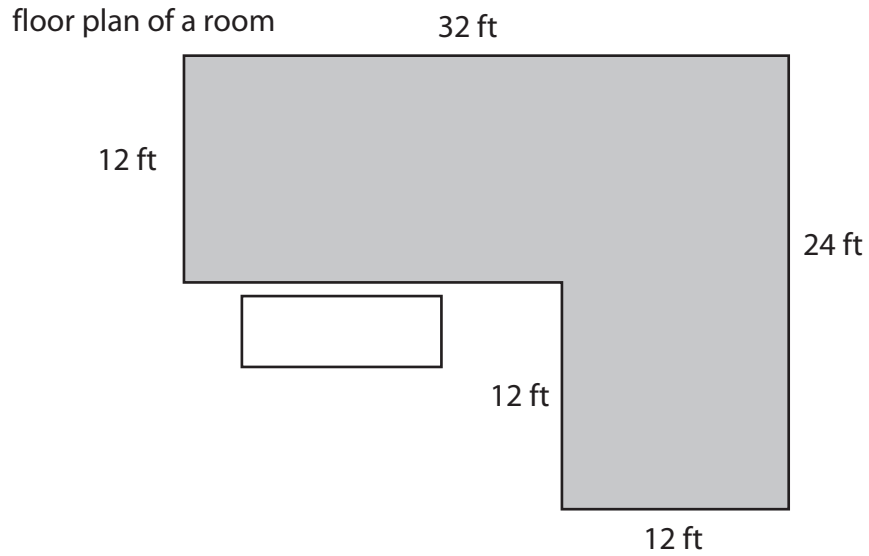
Answer: _____

12. Find the perimeter of the room whose floor plan is shown above. Show your work. Don't forget to use the appropriate unit in your answer.

Answer: _____

13. What is a practical reason for wanting to know the perimeter of a room?

14. Write the missing length in the box.



15. Find the perimeter of the room whose floor plan is shown above.

16. Find the area of the room whose floor plan is shown above.

17. Find the area of the room whose floor plan is shown below. Show your work. Be sure to use the correct unit.

Answer: _____

