Name: _____ Date: _____

Problem Solving: Reasoning to Find the Area

Read each word problem below and solve for the total area and cost. Remember to show your work.

Example

Emily is building a play fort in her yard and needs to buy flooring. If the floor is 10 feet by 5 feet and the unit cost is $4 per square foot, what is the total cost of the flooring?

Remember to show your work!

10 feet x 5 feet = 50 square feet

$50 \text{ ft}^2 \times \$4 = \$200$

Total area: 50 ft^2

Total cost: $200

1. Sam is buying carpet for his room. The room is 8 feet wide and 20 feet long. If the carpet he picked out is $2 per square foot, how much will the carpet cost?
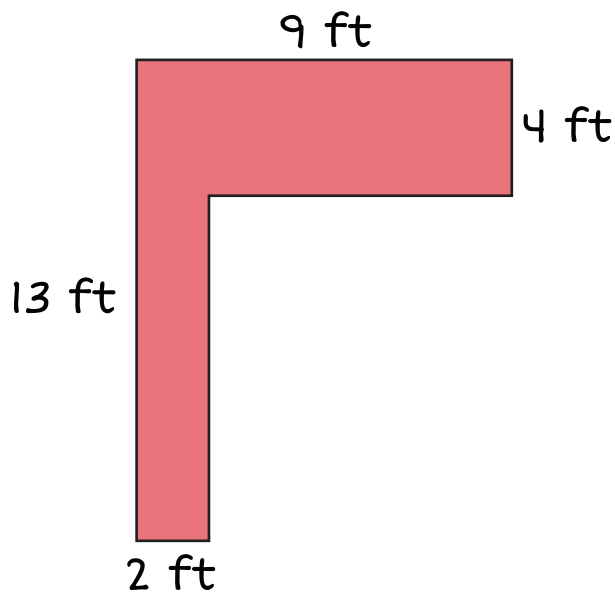
Total area:

Total cost:

2. Devon is going to replace the bricks on her sidewalk. The sidewalk is *8* bricks wide and *12* bricks long. If each brick costs *$3,* how much will the new bricks cost?

Total area: [   ] bricks

Total cost: [   ]

3. Devon also wants to replace the bricks around the driveway. The bricks are in an L shape. The new bricks for this job will cost $6 per square foot. How much will it cost to replace the bricks?

9 ft

4 ft

13 ft

2 ft

Total area:

Total cost:

4. Chase is going to sell tickets for a fundraiser for school. Each ticket costs $2. If he prints the tickets on a piece of paper 8 inches by 11 inches and makes 1 inch square tickets, how many tickets will he be able to make on one sheet of paper? If he sells all the tickets, how much money will he make for the fundraiser?

Total number of tickets:

Total cost: