

## Covering the Floor

**EXAMPLE**

Mary Lou decides to buy square tiles to cover her bathroom floor.

Each square measures  $12'' \times 12''$  and costs \$1.19.

How much will it cost to cover her  $12' \times 7'$  floor?

**Step 1** Find the area that each tile covers.

$$12 \text{ inches} = 1 \text{ foot}$$

$$1' \times 1' = 1 \text{ square foot}$$

**Step 2** Find the number of square feet of floor that needs to be covered.

$$\text{Area} = l \times w$$

$$= 12' \times 7'$$

$$= 84 \text{ square feet}$$

Since each tile covers 1 square foot, Mary Lou needs 84 tiles.

**Step 3** Multiply the number of tiles by the cost per tile.

$$\begin{array}{r} \$ 1.19 \text{ Cost per tile} \\ \times \quad 84 \text{ Number of tiles} \\ \hline \$99.96 \text{ Total cost} \end{array}$$

**Directions** Find the cost of covering these floors with  $12'' \times 12''$  tiles.

	Cost per Tile	Floor Dimensions (in feet)	Cost of Flooring
1.	\$0.69	$10 \times 7$	_____
2.	\$1.39	$18 \times 9$	_____
3.	\$2.39	$9 \times 15$	_____
4.	\$1.99	$11 \times 16$	_____
5.	\$2.19	$12 \times 19$	_____
6.	\$1.15	$10 \times 19$	_____
7.	\$2.75	$12 \times 17$	_____
8.	\$4.19	$8 \times 18$	_____
9.	\$3.79	$8 \times 17$	_____
10.	\$5.19	$13 \times 16$	_____
11.	\$4.85	$12 \times 7$	_____
12.	\$0.95	$17 \times 7$	_____
13.	\$1.45	$10 \times 14$	_____
14.	\$3.09	$9 \times 15$	_____
15.	\$2.09	$12 \times 20$	_____

