Name: Date:

1. The length of your square bathroom floor is 9 feet.

a. A contractor is tiling your floor with one-foot square tiles. How many tiles are needed for the job?

b. The row of tiles on the edge of the floor have a design, and all of the inside tiles are white. Draw a sketch of the floor. How many tiles have   
a design? How many tiles are white?

c. The cost of each tile with a design is more expensive than the cost of each white tile. Write an expression to determine the cost of the tiles   
for the floor.

d. A tile with a design is $1.25 and a white tile is $1.00. Find the total cost of the tiles.

e. The cost to tile your bathroom is the sum of the cost of the tiles, $20 for all other materials, and labor, which is $20 per hour. Write and simplify an expression to determine the total cost to tile your bathroom.

f. Find the total cost to tile your bathroom if the contractor spends 2.5 hours on the job.