$\qquad$

### 12.5 Practice B

1. In the actual blueprint of the bedroom suite, each square has a side length of $\frac{1}{2}$ inch.
a. What are the dimensions of the bedroom suite?
b. What are the dimensions of the bathroom?
c. What is the length of the longest wall in the bedroom?
d. What is the ratio of the perimeter of the closet to the perimeter of the bathroom?

e. What is the ratio of the area of the closet to the area of the bathroom? How can you explain this by looking at the squares in each?
f. All of the walls in the bedroom suite are covered with drywall. Which will cost the most to drywall-the closet, the bathroom, or both are the same?
g. All of the floors in the bedroom suite are covered with tile. Which will cost the most to tile-the closet, the bathroom, or both are the same?
h. What is the area of the bedroom?

## Find the missing dimension. Use the scale factor 2 : 5.

2. Model: 10 km

Actual: $\qquad$
4. Model: $\qquad$ $?$

Actual: 24 ft
3. Model: 5 in.

Actual: $\qquad$ $?$
5. Model: $\qquad$

Actual: 32.5 m
6. A scale factor is $1: 8$. Describe and correct the error in finding the model length that corresponds to 48 feet.
$X \quad \frac{1}{8}=\frac{48 \mathrm{ft}}{x \mathrm{ft}}$
$x=384 \mathrm{ft}$

