

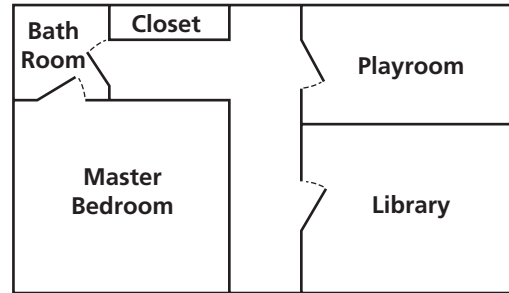
Practice 7-1

Ratios and Proportions

- The Washington Monument in Washington, D.C., is about 556 ft tall. A three-dimensional puzzle of the Washington Monument is 24 in. tall. What is the ratio of the height of the puzzle to the height of the real monument? _____

Find the actual dimensions of each room.

- playroom _____
- master bedroom _____
- closet _____



Scale: 1 in. = 16 ft

Algebra If $\frac{x}{y} = \frac{5}{8}$, are each of the following true or false?

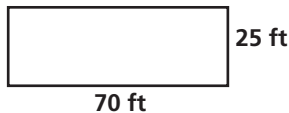
- $8x = 5y$ _____
- $5x = 8y$ _____
- $\frac{x}{5} = \frac{y}{8}$ _____
- $\frac{x}{8} = \frac{y}{5}$ _____
- $\frac{x+y}{y} = \frac{13}{8}$ _____
- $\frac{x}{y} = \frac{10}{16}$ _____

Algebra Solve each proportion for x .

- $\frac{x}{4} = \frac{9}{3}$ _____
- $\frac{6}{11} = \frac{x}{22}$ _____
- $\frac{6}{x} = \frac{2}{11}$ _____
- $\frac{2}{x} = \frac{x}{32}$ _____
- $\frac{x}{x+2} = \frac{3}{4}$ _____
- $\frac{x+1}{x} = \frac{7}{5}$ _____

For each rectangle, find the ratio of the longer side to the shorter side.

17. _____



18. _____



Complete each of the following.

- If $3x = 8y$, then $\frac{x}{y} = \frac{?}{?}$. _____
- If $\frac{a}{7} = \frac{b}{13}$, then $\frac{a}{b} = \frac{?}{?}$. _____