

# Ready to Go On?

## 2-1 Rates, Ratios, and Proportions

- Last week, the ratio of laptops to desktops sold at a computer store was 2:3. Eighteen desktop models were sold. How many laptop models were sold?
- Anita read 150 pages in 5 hours. What is her reading rate in pages per minute?
- Twenty-six crackers contain 156 Calories. Find the unit rate in Calories per cracker.
- A store developed 1024 photographs in 8 hours. Find the unit rate in photographs per hour.

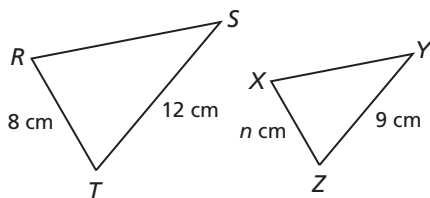
Solve each proportion.

- $\frac{-18}{n} = \frac{9}{2}$
- $\frac{d}{5} = \frac{2}{4}$
- $\frac{4}{12} = \frac{r+2}{16}$
- $\frac{-3}{7} = \frac{6}{x+6}$

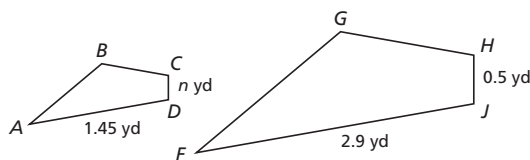
## 2-2 Applications of Proportions

Find the value of  $n$  in each diagram.

9.  $\triangle RST \sim \triangle XYZ$



10.  $ABCD \sim FGHI$



## 2-3 Precision and Accuracy

Choose the more precise measurement in each pair.

- 2.5 ft; 2 ft
- 1 yd; 3 ft
- 5910 g; 5.9 kg
- 16 oz; 16.0 oz

Write the possible range of each measurement. Round to the nearest hundredth if necessary.

- 300 m  $\pm$  1%
- 150 lb  $\pm$  6%
- 60 L  $\pm$  0.5%
- 220 kg  $\pm$  1.5%