

# Pretest

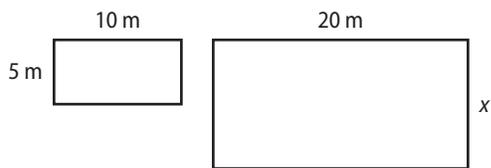
Express each ratio as a fraction in simplest form.

- 9 vans to 6 pick-up trucks
- 14 girls out of 18 students

- \_\_\_\_\_
- \_\_\_\_\_

Express each rate as a unit rate.

- \$75 for 5 DVDs
- 300 words in 5 minutes
- Which bottle of water costs more per ounce: a 12 ounce bottle for \$1.25 or a 16 ounce bottle for \$1.50? Explain.
- Ari kayaked  $2\frac{1}{4}$  miles in  $1\frac{1}{4}$  hours. What is his average speed in miles per hour?
- Find the value of  $x$  in the pair of similar figures.



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Complete each conversion. Round to the nearest hundredth.

- 15 ft  $\approx$  \_\_\_\_\_ m
- 11 gal  $\approx$  \_\_\_\_\_ L
- A model airplane is built with a wing span of 18 inches. The actual wing span is 72 feet. Find the scale.
- A mail service drop box is 4 feet tall. The drop box casts a shadow that is 6 feet long. At the same time, the post office building casts a shadow that is 54 feet long. What is the height of the post office?
- Jhan bought an 8-ounce fruit drink for \$1.50. Write and solve a proportion that could be used to find the cost of a gallon of fruit drink. (*Hint*: 1 gal = 128 oz)
- A taxi cab company charges a \$2 fee plus \$1.10 for each mile driven. Complete the table. Determine whether the set of numbers in the table is proportional. If so, identify the constant of proportionality.

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Miles Driven	1	2	3	4	5
Cab Fare (\$)	■	■	■	■	■

- \_\_\_\_\_