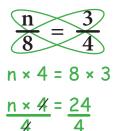
Name:

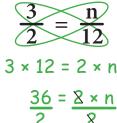
Date:

## Proportions

Find the missing number 'n' by cross multiplying.



Find the missing number 'n' by cross multiplying.



Find the missing number 'n' in this proportion by cross multiplying.



A factory makes 12 bikes in 3 hours. If it keeps making bikes at the same rate, how many bikes will it have made in 8 hours? (hint: set up a proportion.)



$$\frac{60}{5}^{\text{mi}}_{\text{hr}} = \frac{n}{8}^{\text{mi}}_{\text{hr}}$$

$$60 \times 8 = 5 \times n$$

$$\frac{480}{5} = \frac{\cancel{5} \times n}{\cancel{5}}$$

 $\frac{12}{3}$  bikes  $\frac{n}{8}$  hrs

$$12 \times 8 = 3 \times n$$

$$\frac{96}{3} = \frac{3 \times n}{3}$$

If it takes 2 cups of flour to make 45 it take to make 135 cookies? (hint: set up a proportion.)



cookies, how many cups of flour will



 $\frac{2 \text{ cups}}{45 \text{ cookies}} = \frac{n}{135} \text{ cookies}$ 

$$2 \times 135 = n \times 45$$

$$\frac{270}{45} = \frac{n \times 45}{45}$$

On a map, two cities measure 6.2 cm apart. If the scale of the map is 5 cm per 10 miles, then how many miles apart are the cities? (hint: set up a proportion.)



$$\frac{5}{10} \frac{\text{cm}}{\text{mi}} = \frac{6.2}{n} \frac{\text{cm}}{\text{mi}}$$

$$5 \times n = 10 \times 6.2$$

$$\frac{\cancel{5} \times \mathbf{n}}{\cancel{5}} = \frac{62}{5}$$