Name _____

Reteaching
13-1

Using Ratio Tables

A ratio table showing equal ratios can be used to solve a proportion.

Ross uses 11 skeins of yarn to make 4 scarves. How many scarves can he make from 66 skeins of yarn?

Write a proportion. Use x for the number of scarves.

$$\frac{4 \text{ scarves}}{11 \text{ skeins}} = \frac{x \text{ scarves}}{66 \text{ skeins}}$$

Make a ratio table. Multiply or divide to find equal ratios. Find ratios equivalent to $\frac{4}{11}$ by multiplying both terms of the ratio by the same number until you find 66 skeins.

Number of scarves	4	8	12	16	20	24
Number of skeins	11	22	33	44	55	66

$$\frac{4 \text{ scarves}}{11 \text{ skeins}} = \frac{24 \text{ scarves}}{66 \text{ skeins}}$$

So, Ross can make 24 scarves from 66 skeins of yarn.

Answer the question and complete each ratio table.

1. $\frac{\$25}{\square \text{ min}} = \frac{\$200}{1{,}000 \text{ min}}$

Number of dollars	200	100	50	25
Number of minutes	1,000			

2. $\frac{\square \text{ batteries}}{9 \text{ flashlights}} = \frac{12 \text{ batteries}}{3 \text{ flashlights}}$

Number of batteries				
Number of flashlights				

3. $\frac{\square \text{ ft}}{800 \text{ h}} = \frac{9 \text{ ft}}{8 \text{ h}}$

Number of _____				
Number of _____				

4. $\frac{4 \text{ carts}}{16 \text{ horses}} = \frac{\square \text{ carts}}{64 \text{ horses}}$

Number of _____				
Number of _____				

5. Laine was practicing her free throws. She shot nine times and made five baskets. At this rate, how many times will she need to shoot to make 35 baskets?

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6. Hiram said that he can use the same ratio table to solve the two proportions below. Do you agree or disagree with Hiram?

$$\frac{8 \text{ cows}}{2 \text{ pigs}} = \frac{c \text{ cows}}{10 \text{ pigs}} \qquad \frac{2 \text{ pigs}}{8 \text{ cows}} = \frac{10 \text{ pigs}}{c \text{ cows}}$$

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