

Application of Proportions

EXERCISE

- Use the given information to complete the table and graph below. An inkjet printer can print 6 color copies in two minutes. How many minutes does it take to print 90 copies?

Ratio Table		
Number of Copies	Process	Number of Minutes
6		2
x		y


Unit Rates	Scale Factor Between Row 1 and 3	Equation for Ratio Table

Graph for Ratio Table

- Use the unit rates to determine how many minutes it takes to print 90 copies.
- Use a scale factor to determine how many minutes it takes to print 90 copies.
$$\frac{6 \text{ copies} \cdot ?}{2 \text{ minutes}} = \frac{90 \text{ copies}}{? \text{ minutes}}$$
- Use the equation from the table to determine how many minutes it takes to print 90 copies.

Application of Proportions

5. Use unit rates and the given advertisements to determine the better price. Write the two unit rates for each situation.



Store A
Cereal
12 ounces/\$3.00


$$= \frac{12 \text{ ounces}}{\$3.00} = \frac{1 \text{ ounce}}{?} = \frac{?}{\$1.00}$$



Store B
Cereal
25 ounces/\$4.00

$$= \frac{25 \text{ ounces}}{\$4.00} = \frac{1 \text{ ounce}}{?} = \frac{?}{\$1.00}$$

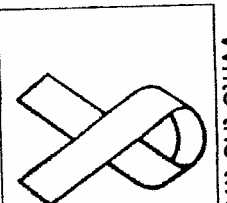
6. Use unit rates and the given advertisements to determine the cost of 11 apples. Write the two unit rates.



Apples
6 apples/\$1.50

$$= \frac{6 \text{ apples}}{\$1.50} = \frac{1 \text{ apple}}{?} = \frac{?}{\$1.00}$$

7. Use unit rates and the given advertisement to determine the price for 15 yards of the same ribbon. Write the two unit rates.



Ribbon
 $6\frac{1}{2}$ yds./\$29.25

$$= \frac{6\frac{1}{2} \text{ yards}}{\$29.25} = \frac{1 \text{ yard}}{?} = \frac{?}{\$1.00}$$