

Solve each proportion.

1. $\frac{-12}{18} = \frac{28}{M}$

$$\frac{-12 \cdot m}{-12} = \frac{28 \cdot 18}{-12}$$

$$m = -42$$

2. $\frac{c+5}{3c-6} = \frac{4}{9}$

$$9(c+5) = 4(3c-6)$$

$$9c+45 = 12c-24$$

$$-9c \quad -9c$$

$$45 = 3c - 24$$

$$+24 \quad +24$$

$$69 = 3c \quad c = 23$$

3. In Canada the speed limit on the expressway is 100km/hr.
Convert this into miles/hr.

1 km = 1000 m

1 yard = 0.9144 m

1 mile = 1760 yds

$$\frac{100 \text{ km}}{1 \text{ hr}} \cdot \frac{1000 \text{ m}}{1 \text{ km}} \cdot \frac{1 \text{ yd}}{0.9144 \text{ m}} \cdot \frac{1 \text{ mi}}{1760 \text{ yd}} = 62.14 \text{ mph}$$

4. Convert 75 pesos per hour into dollars per year.

100 pesos = 764 cents

$$\frac{75 \text{ p}}{1 \text{ hr}} \cdot \frac{24 \text{ hr}}{1 \text{ day}} \cdot \frac{365 \text{ day}}{1 \text{ yr}} \cdot \frac{764 \text{ c}}{100 \text{ p}} \cdot \frac{(\$)1}{100 \text{ c}} =$$

$$= \$50,194.80$$