

January 21, 2015^{1st} ^{2nd} Starter

Lester has a number of oranges that he has to put into a box. He finds out this information:

When he puts them in 2 at a time, 1 is left over.

When he puts them in 3 at a time, 2 are left over.

When he puts them in 4 at a time, 3 are left over.

When he puts them in 5 at a time, 4 are left over.

When he puts them in 6 at a time, 5 are left over.

When he puts them in 7 at a time, they fit in evenly.

How many oranges
did Lester have?



Metro

1/21 Real-Life Uses for Proportions - Cost and Exchange Rate

Three bunches of cilantro cost \$5.

How many bunches can you buy for \$10?



$$\begin{array}{ccc} \# & & \# \\ \$ & \frac{3 \cdot 2}{5 \cdot 2} = \frac{x}{10} & \$ \end{array}$$

$$6 = x \\ \text{bunches}$$

If you can buy three mangos for \$2.70, then how many can you buy with \$10.89?



$$\begin{array}{l} \# \quad 10.89(3) \quad = \quad (x) 2.70 \quad \# \\ \$ \quad 10.89(\cancel{2.70}) \quad = \quad (\cancel{10.89}) \cancel{2.70} \quad \$ \end{array}$$

$$\frac{32.67}{2.70} = \frac{2.70x}{2.70}$$

$12.1 = x$
Since you cannot purchase a partial mango, you only have enough to get **12 mangos**.

The money used in Switzerland is called the Franc. The exchange rate is \$1.90 for 1 Franc. Find how many Francs you would receive if you exchanged \$33.50.



$$\frac{\$33.50}{1.90} = \frac{33.50}{1.90} \times 1.90$$

Frans ^{33.50} | X 1.90

$$\frac{33.50}{1.9} = \frac{1.90x}{1.9}$$

$$17.63 \text{ Frans} \times$$

The currency in Saudi Arabia is the Riyal. The exchange rate is approximately \$3.30 to 1 Riyal. At this rate, how many dollars would you get if you exchanged 10.9 Riyals?



$$\begin{array}{r} \$ \quad \underline{3.30} \quad \underline{(10.9)} \quad X \\ \text{Riyal} \quad \underline{1} \quad \underline{(10.9)} \quad 10.9 \end{array}$$

$$\$ 35.97 = X$$

Homework

Green WS 4

Due Thursday