

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?



$$\begin{array}{l} \text{Bunches} \\ \$ \end{array} \begin{array}{|c|} \hline 3 \\ \hline 5 \\ \hline \end{array} = \begin{array}{|c|} \hline x \\ \hline 10 \\ \hline \end{array}$$

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

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



$$\# \frac{10.89}{2.70} = \frac{3}{10.89} \times 2.70$$

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

$$12.1 \text{ mangos} \times$$

$$32.67 \div 2.7 = 12.1$$

Since you cannot purchase part of a mango, the answer is actually 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.



$$\begin{array}{l} \$ 33.50 \left(\frac{1.90}{1} \right) = \frac{(33.50)}{1.90} \cdot 1.90 \\ \text{Franc } 33.50 \left(\frac{1}{1.90} \right) = \frac{(33.50)}{1.90} \cdot 1 \\ \hline 33.50 = \frac{1.90x}{1.90} \\ \hline 17.63 \text{ Francs} = x \end{array}$$

$$33.5 \div 1.9 = 17.631579$$

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?



$$\begin{array}{r} \$ \quad 3.30 \quad (10.9) \quad X \\ \hline \text{Riyals} \quad 1 \quad (10.9) \quad 10.9 \\ \hline \\ \$ 35.97 = X \end{array}$$

$$3.3 \times 10.9 = 35.97$$

Homework

Green WS4

Due Thursday