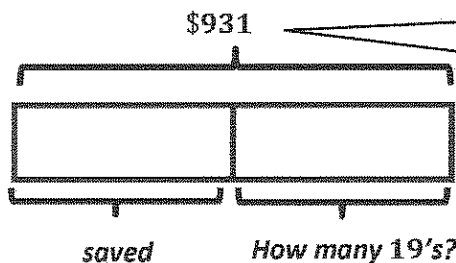


G5-M2-Lesson 28

1. Juanita is saving for a new television that costs \$931. She has already saved half of the money. Juanita earns \$19.00 per hour. How many hours must Juanita work to save the rest of the money?



I draw a tape diagram and label the whole as \$931. Since she has already saved half, I cut it into 2 equal units.

I have to find how many 19's are in the other half.

$$\$931 \div 2 = \$465.5$$

Since Juanita already saved half of the money, then I'll use \$931 divided by 2 to find how much she still needs to save.

$$\begin{array}{r} 465.5 \\ 2 \overline{) 931.0} \\ \underline{- 8} \\ 13 \\ \underline{- 12} \\ 11 \\ \underline{- 10} \\ 10 \\ \underline{- 10} \\ 0 \end{array}$$

Juanita already saved \$465.50 and will need to save \$465.50 more.

$$\$465.5 \div \$19 = 24.5$$

Since Juanita makes \$19 an hour, then I'll use \$465.50 divided by \$19 to find how many more hours she will need to work.

$$\begin{array}{r} 24.5 \\ 19 \overline{) 465.5} \\ \underline{- 38} \\ 85 \\ \underline{- 76} \\ 95 \\ \underline{- 95} \\ 0 \end{array}$$

Juanita will need to work 24.5 more hours.

I can estimate to help me find the quotient. $465.5 \approx 400$.
 $40 \text{ tens} \div 20 = 2 \text{ tens}$.

I estimate again.
 $80 \text{ ones} \div 20 = 4 \text{ ones}$.

I estimate a 3rd time.
 $100 \text{ tenths} \div 20 = 5 \text{ tenths}$.

Juanita needs to work 24.5 more hours.

2. Timmy has a collection of 1,008 baseball cards. He hopes to sell the collection in packs of 48 cards and make \$178.50 when all the packs are sold. If each pack is priced the same, how much should Timmy charge per pack?

I need to find out how many packs of baseball cards Timmy has by dividing $1,008 \div 48$. Then I can find out how much Timmy should charge per pack.

$$1,008 \div 48 = 21$$

Timmy will have 21 packs of baseball cards.

$$\begin{array}{r} 21 \\ 48 \overline{) 1008} \\ \underline{- 96} \\ 48 \\ \underline{- 48} \\ 0 \end{array}$$

I can estimate.

$$100 \text{ tens} \div 50 = 2 \text{ tens.}$$

I estimate again.

$$40 \text{ ones} \div 40 = 1 \text{ one.}$$

$$\$178.50 \div 21 = \$8.50$$

The price of each pack of cards needs to be \$8.50.

$$\begin{array}{r} 8.5 \\ 21 \overline{) 178.5} \\ \underline{- 168} \\ 105 \\ \underline{- 105} \\ 0 \end{array}$$

Timmy should charge \$8.50 per pack.