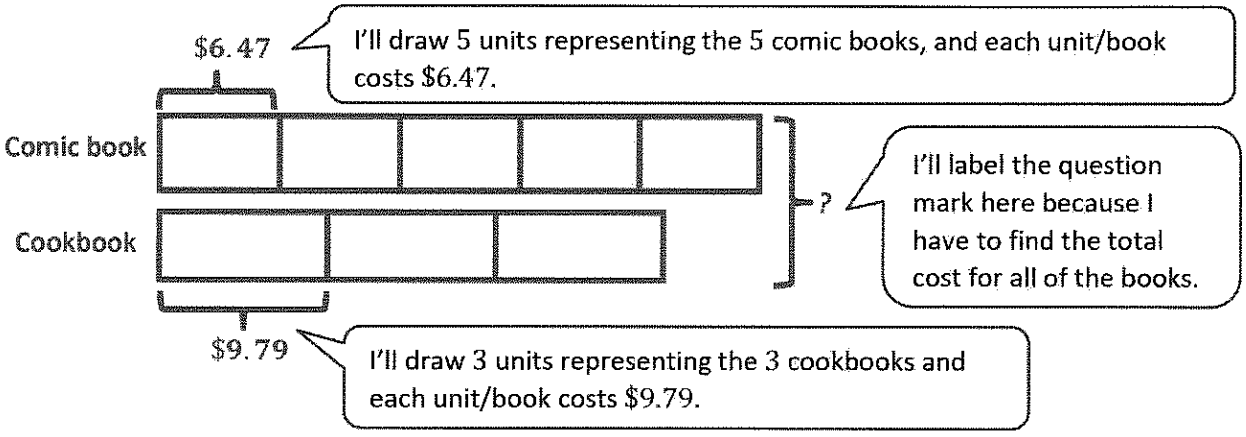
G5-M1-Lesson 16

1. A comic book costs $6.47, and a cookbook costs $9.79.

   a. Zion buys 5 comic books and 3 cookbooks. What is the total cost for all of the books?

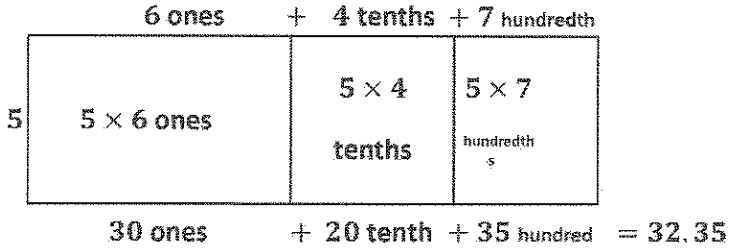


Comic book:

1 unit = $6.47

5 units = 5 × $6.47 = $32.35

I'll find the total cost of the 5 comic books by multiplying 5 times $6.47.

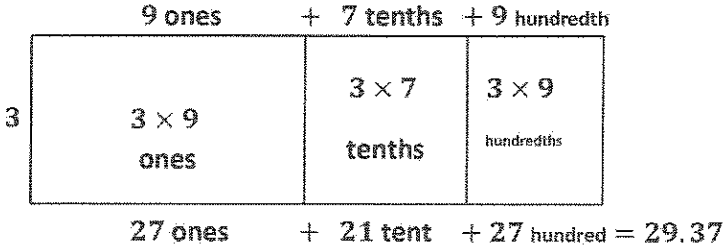


Cookbook:

1 unit = $9.79

3 units = 3 × $9.79 = $29.37

I'll find the total cost of the 3 cookbooks by multiplying 3 times $9.79.

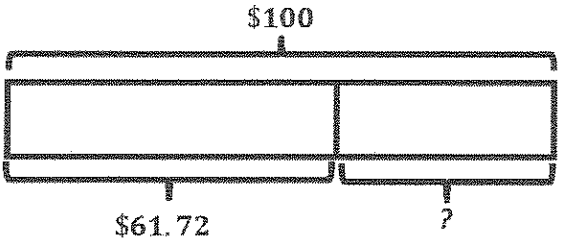


The total cost of all the books is $61.72.

$$\begin{array}{r} 32.35 \\ +\ 29.37 \\ \hline 61.72 \end{array}$$

I'll add the total cost of 5 comic books and the total cost of 3 cookbooks together to find the total cost of all 8 books.

b. Zion wants to pay for the all the books with a $100 bill. How much change will he get back?



$100 − $61.72 = $38.28

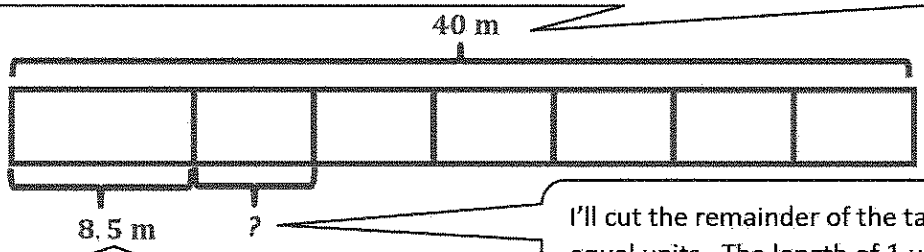
Zion will get $38.28 *back in change.*

I'll subtract $61.72 from $100 to find Zion's change.

$$\begin{array}{rrrrr} & 0 & 9 & 9 & 10 \\ & \not{1} & \not{0} & \not{0}. & \not{0} & \not{0} \\ - & & 6 & 1. & 7 & 2 \\ \hline & & 3 & 8. & 2 & 8 \end{array}$$

2. Ms. Porter bought 40 meters of string. She used 8.5 meters to tie a package. Then she cuts the remainder into 6 equal pieces. Find the length of each piece. Give the answer in meters.

I'll draw a tape diagram to represent the string Ms. Porter bought and label the whole as 40 m.



I'll cut out a small part representing the string needed for tying the package and label it 8.5 m.

I'll cut the remainder of the tape into 6 equal units. The length of 1 unit represents the length of each piece of string.

40 m − 8.5 m = 31.5 m

$$\begin{array}{rrrr} & 3 & 9 & 10 \\ & \not{4} & \not{0}. & \not{0} \\ - & & 8. & 5 \\ \hline & 3 & 1. & 5 \end{array}$$

I can subtract 8.5 from 40 to find the length of the remaining string.

6 units = 31.5 m

1 unit = 31.5 m ÷ 6 = 5.25 m

$$\begin{array}{r|rrrr} & & 5. & 2 & 5 \\ \hline 6 & 3 & 1. & 5 & 0 \\ - & 3 & 0 & & \\ \hline & & 1 & 5 & \\ - & & 1 & 2 & \\ \hline & & & 3 & 0 \\ - & & & 3 & 0 \\ \hline & & & & 0 \end{array}$$

I can divide 31.5 by 6 to find the length of each piece of string.

Each piece of string is 5.25 *meters.*