Name _____   Date _____

Directions: Use the RDW process for each problem. Use a letter to represent the solution.
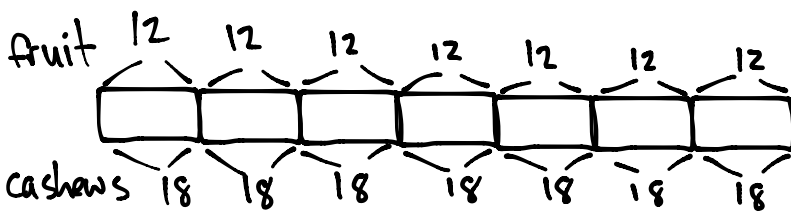
1. There are 60 minutes in 1 hour. Use a tape diagram to find the total number of minutes in 6 hours and 15 minutes.

$$60 \times 6 + 15$$
$$10 \times 6 \times 6 + 15$$
$$10 \times 36 + 15$$
$$360 + 15 = 375$$

There are 375 minutes in 6 hours 15 minutes.

2. Ms. Lemus buys 7 boxes of snacks. Each box has 12 packets of fruit snacks and 18 packets of cashews. How many snacks did she buy altogether?

$$7 \times (12 + 18) = 7 \times 30$$
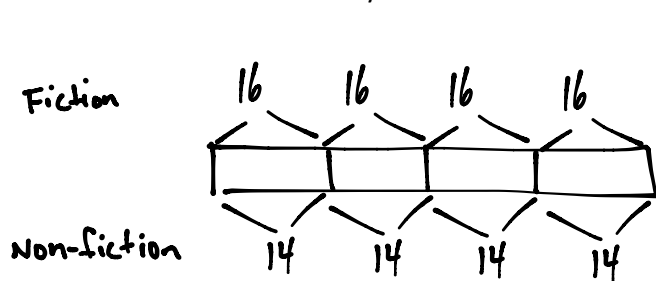$$= 7 \times 3 \times 10$$
$$= 21 \times 10$$
$$= 210$$

Ms. Lemus bought 210 snacks altogether.

3. Tamara wants to buy a tablet that costs $437. She saves $50 a month for 9 months. Does she have enough money to buy the tablet? Explain why or why not.

$$9 \times 50 = 9 \times 5 \times 10$$
$$= 45 \times 10$$
$$= 450$$

Since $450 is greater than $437, Tamara will have enough money to buy the tablet.
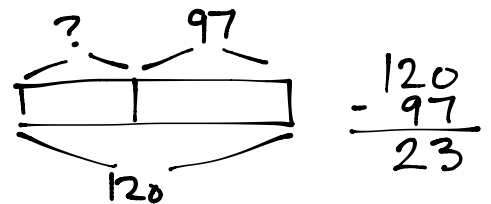
4. Mr. Ramirez receives 4 sets of books. Each set has 16 fiction books and 14 non-fiction books. He puts 97 books in his library and donates the rest of his books. How many books does he donate?

Fiction

16   16   16   16

Non-fiction   14   14   14   14

$$4 \times 30 = b$$
$$b = 120$$

He has 120 books.

?   97

120

$$\begin{array}{r} 120 \\ -\ 97 \\ \hline 23 \end{array}$$

He donates 23 books.

5. Celia sells calendars for a fundraiser. Each calendar costs $9. She sells 16 calendars to her family members and 14 calendars to the people in her neighborhood. Her goal is to earn $300. Does Celia reach her goal? Explain your answer.

16   14

?

$$\begin{array}{r} 16 \\ +\ 14 \\ \hline 30 \end{array}$$

Celia sold 30 calendars
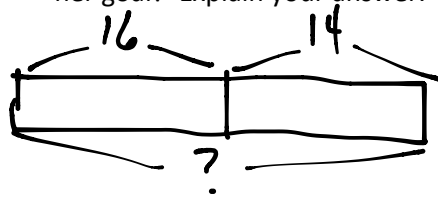
$$30 \times 9 = 270$$

Celia earned $270.

$$\begin{array}{r} 300 \\ -\ 270 \\ \hline 30 \end{array}$$

Celia missed her goal by $30.

6. The video store sells science and history movies for $5 each. How much money does the video store make if it sells 33 science movies and 57 history movies?

33   57

?

$$\begin{array}{r} 57 \\ +\ 33 \\ \hline 90 \end{array}$$

The store sold 90 movies.
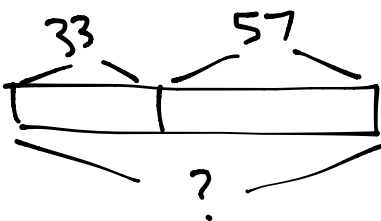
$$90 \times 5 = 450$$

The video store earned $450.