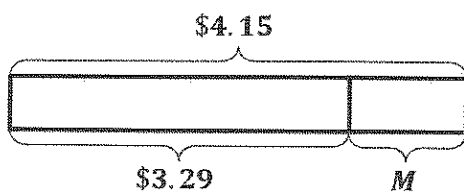


G4-M6-Lesson 16

Use the RDW process to solve. Write your answer as a decimal.

1. Soo Jin needs 4 dollars 15 cents to buy a school lunch. At the bottom of her backpack, she finds 2 dollar bills, 5 quarters, and 4 pennies. How much more money does Soo Jin need to buy a school lunch?

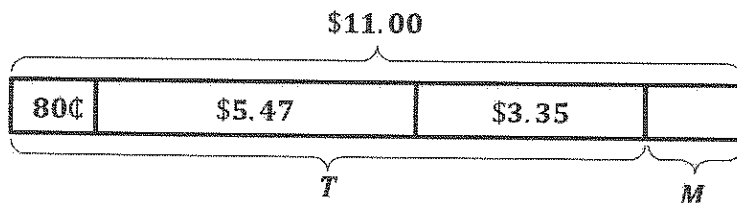


$$\begin{aligned}
 M &= 4 \text{ dollars } 15 \text{ cents} - 3 \text{ dollars } 29 \text{ cents} \\
 &= 1 \text{ dollar } 15 \text{ cents} - 29 \text{ cents} \\
 &\quad \begin{array}{l} \swarrow \quad \searrow \\ 100 \text{ cents} \quad 15 \text{ cents} \\ = 86 \text{ cents} \\ = \$0.86 \end{array}
 \end{aligned}$$

Another way to solve $115 \text{ cents} - 29 \text{ cents}$ is to add 1 to each number and then solve $116 - 30$.
 $11 \text{ tens } 6 \text{ ones} - 3 \text{ tens} = 8 \text{ tens } 6 \text{ ones}$.

Soo Jin needs \$0.86 more to buy a school lunch.

2. Kelly has 2 quarters and 3 dimes. Jack has 5 dollars, 4 dimes, and 7 pennies. Emma has 3 dollars, 1 quarter, and 1 dime. They want to put their money together to buy a pizza that costs \$11.00. Do they have enough? If not, how much more do they need?



$$\begin{aligned}
 T &= 80 \text{ cents} + 5 \text{ dollars } 47 \text{ cents} + 3 \text{ dollars } 35 \text{ cents} \\
 &= 8 \text{ dollars } 162 \text{ cents}
 \end{aligned}$$

$$\begin{aligned}
 &\quad \begin{array}{l} \swarrow \quad \searrow \\ 1 \text{ dollar } \quad 62 \text{ cents} \\ = 9 \text{ dollars } 62 \text{ cents} \end{array}
 \end{aligned}$$

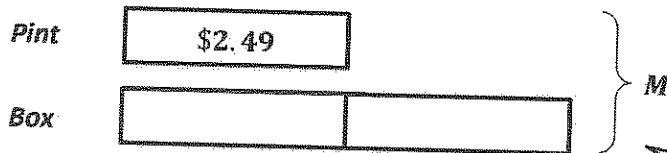
Kelly, Jack, and Emma have \$9.62.

I determine how much money Kelly, Jack, and Emma each have. I add to find out how much money they have together. Then, I subtract that amount from the cost of the pizza to find out how much more money they need, M .

$$\begin{aligned}
 M &= 11 \text{ dollars} - 9 \text{ dollars } 62 \text{ cents} \\
 &\quad \begin{array}{l} \swarrow \quad \searrow \\ 10 \text{ dollars} \quad 100 \text{ cents} \\ = 1 \text{ dollar } 38 \text{ cents} \end{array}
 \end{aligned}$$

They do not have enough money to buy the pizza.
 They need \$1.38 more.

3. A pint of ice cream costs \$2.49. A box of ice cream cup sundaes costs twice as much as the pint of ice cream. Brandon buys a pint of ice cream and a box of ice cream cup sundaes. How much money does he spend?

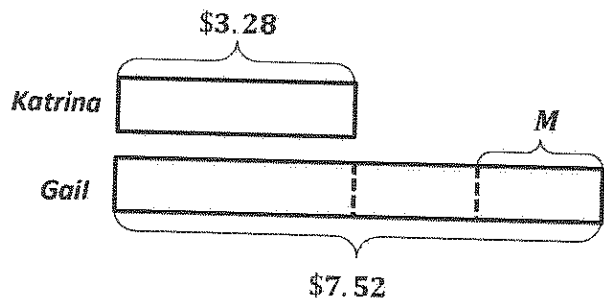


$$\begin{array}{r}
 249 \text{ cents} \\
 \times 3 \\
 \hline
 747 \text{ cents}
 \end{array}$$

Brandon spends \$7.47.

I see that there are 3 units of \$2.49. I rename \$2.49 as 249 cents and then multiply by 3. I write my answer in decimal form.

4. Katrina has 3 dollars 28 cents. Gail has 7 dollars 52 cents. How much money does Gail need to give Katrina so that each of them has the same amount of money?



The tape diagram helps me to solve. I see that if Gail gives Katrina half of the difference, they will have the same amount. I subtract to find the difference, and then I divide by 2.

$$\begin{aligned}
 7 \text{ dollars } 52 \text{ cents} - 3 \text{ dollars } 28 \text{ cents} &= 4 \text{ dollars } 24 \text{ cents} \\
 &= 424 \text{ cents}
 \end{aligned}$$

$$\begin{array}{r}
 212 \\
 2 \overline{) 424} \\
 \underline{- 4} \\
 02 \\
 \underline{- 2} \\
 04 \\
 \underline{- 4} \\
 0
 \end{array}$$

212 cents = \$2.12

M = \$2.12

Gail needs to give Katrina \$2.12 so that each of them has the same amount of money.