

# MI-L16 - Word Problems

AP

Each friend will pay \$2.84.

5.42	2.55	3.39
TM	A	GB

$$5.42 + 2.55 + 3.39 = C$$

$$\begin{array}{r} 5.42 \\ 2.55 \\ + 3.39 \\ \hline \$11.36 \end{array}$$

$$\begin{array}{r} 11.36 \\ 4 \overline{) 11.36} \\ \underline{-8} \phantom{0} \\ 33 \\ \underline{-32} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

Name \_\_\_\_\_

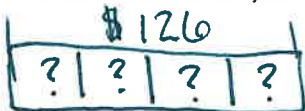
Date \_\_\_\_\_

Solve.

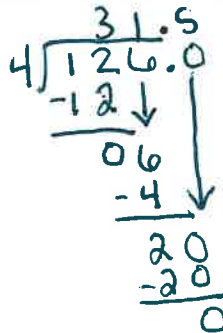
1. Mr. Frye distributed \$126 equally among his 4 children for their weekly allowance.

a. How much money did each child receive?

Each child will receive \$31.50.

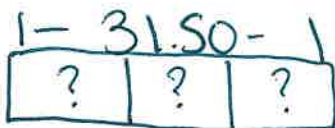


$$126 \div 4 = 31.5$$

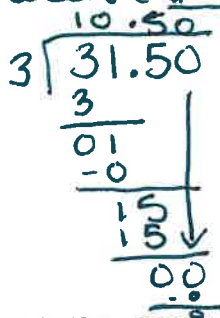


b. John, the oldest child, paid his siblings to do his chores. If John pays his allowance equally to his brother and two sisters, how much money will each of his siblings have received in all?

Each sibling will receive \$42.00 in all.

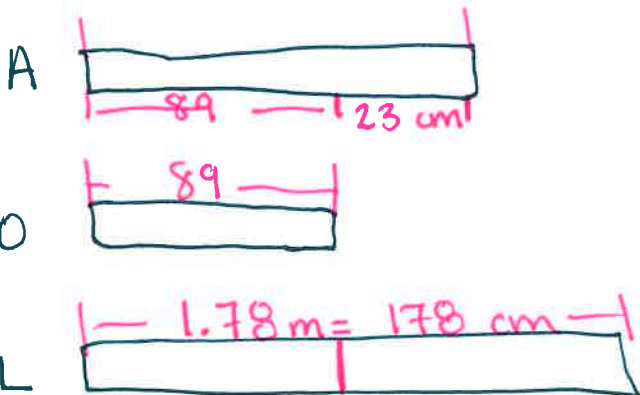


$$31.50 \div 3 =$$

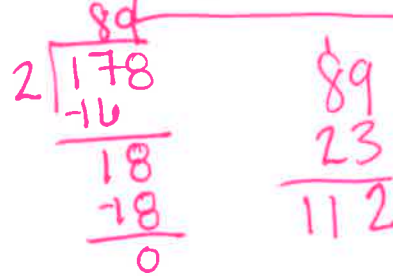


$$\begin{array}{r} 31.50 \\ + 10.50 \\ \hline 42.00 \end{array}$$

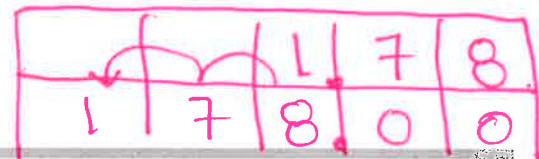
2. Ava is 23 cm taller than Olivia, and Olivia is half the height of Lucas. If Lucas is 1.78 m tall, how tall are Ava and Olivia? Express their heights in centimeters.



Ava is 112 cm  
Olivia is 89 cm



- 1.78 m = 178 cm
- E 1.78 x 1 m
- C 1.78 x 100 cm
- A 178 cm



3. Mr. Hower can buy a computer with a down payment of \$510 and 8 monthly payments of \$35.75. If he pays cash for the computer, the cost is \$699.99. How much money will he save if he pays cash for the computer instead of paying for it in monthly payments?

Mr. Hower will save \$96.01.



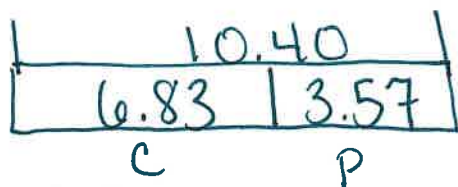
$$\begin{array}{r} \overset{4}{3} \overset{6}{5} \overset{4}{7} 5 \text{ hundredths} \\ \times \quad 8 \\ \hline 28,600 \text{ hundredths} \\ = 286.00 \end{array}$$

$$\begin{array}{r} \overset{6}{7} \overset{18}{9} \overset{15}{9} \overset{9}{9} \overset{10}{9} \\ - 699.99 \\ \hline \$96.01 \end{array}$$

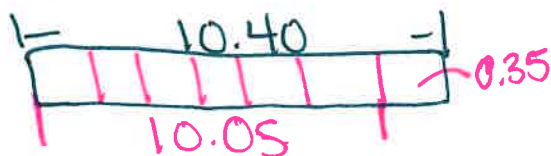
$$\begin{array}{r} 510 \\ + 286 \\ \hline 796 \end{array}$$

4. Brandon mixed 6.83 lb of cashews with 3.57 lb of pistachios. After filling up 6 bags that were the same size with the mixture, he had 0.35 lb of nuts left. What was the weight of each bag? Use a tape diagram, and show your calculations.

The weight of each bag is 1.675 lbs.



$$\begin{array}{r} 6.83 \\ + 3.57 \\ \hline 10.40 \\ - 0.35 \\ \hline 10.05 \end{array}$$

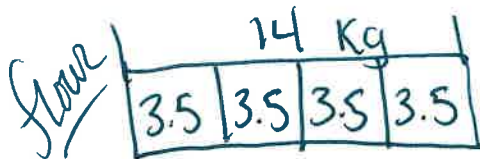


$$\begin{array}{r} 1.675 \\ 6 \overline{) 10.050} \\ \underline{6} \phantom{0} \phantom{0} \\ 40 \phantom{0} \\ \underline{-36} \phantom{0} \\ 45 \phantom{0} \\ \underline{-42} \phantom{0} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

5. The bakery bought 4 bags of flour containing 3.5 kg each. 0.475 kg of flour is needed to make a batch of muffins, and 0.65 kg is needed to make a loaf of bread.

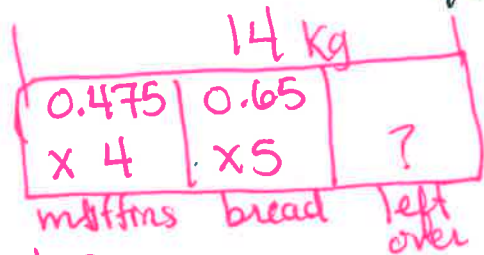
a. If 4 batches of muffins and 5 loaves of bread are baked, how much flour will be left? Give your answer in kilograms.

There is 8.85 kg of flour left.



$$\begin{array}{r} 35 \text{ tenths} \\ \times 4 \\ \hline 140 \text{ tenths} = 14.0 \end{array}$$

$$\begin{array}{r} 14.00 \\ - 5.15 \\ \hline 8.85 \end{array}$$



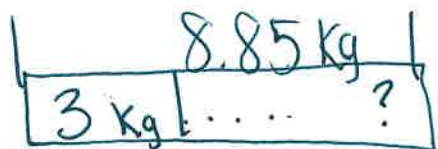
$$\begin{array}{r} 475 \text{ thousandths} \\ \times 4 \\ \hline 1900 \text{ thousandths} \\ = 1.900 \end{array}$$

$$\begin{array}{r} 65 \text{ hundredths} \\ \times 5 \\ \hline 325 \text{ hundredths} \\ = 3.25 \end{array}$$

$$\begin{array}{r} 1.90 \\ + 3.25 \\ \hline 5.15 \text{ Kg} \end{array}$$

b. The remaining flour is stored in bins that hold 3 kg each. How many bins will be needed to store the flour? Explain your answer.

There will be 3 bins needed.



$$\begin{array}{r} 2.95 \\ 3 \overline{) 8.85} \\ \underline{- 6} \phantom{0} \\ 28 \\ \underline{- 27} \\ 15 \\ \underline{- 15} \\ 0 \end{array}$$