

Name _____

Date _____

1. Determine the following sums and differences. Show your work.

a. $11 \text{ oz} + 5 \text{ oz} = \underline{1} \text{ lb}$

$$\begin{array}{r} 11 \text{ oz} \\ + 5 \text{ oz} \\ \hline 16 \text{ oz} = 1 \text{ lb} \end{array}$$

b. $1 \text{ lb } 7 \text{ oz} + 9 \text{ oz} = \underline{2} \text{ lb}$

$$\begin{array}{r} 1 \text{ lb } 7 \text{ oz} \\ + 9 \text{ oz} \\ \hline 1 \text{ lb } 16 \text{ oz} \end{array}$$

c. $1 \text{ lb} - 11 \text{ oz} = \underline{5} \text{ oz}$

$$\begin{array}{r} 1 \text{ lb} \\ - 11 \text{ oz} \\ \hline 16 \text{ oz} - 11 \text{ oz} = 5 \text{ oz} \end{array}$$

d. $12 \text{ lb} - 8 \text{ oz} = \underline{11} \text{ lb } \underline{8} \text{ oz}$

$$\begin{array}{r} 12 \text{ lb} \\ - 8 \text{ oz} \\ \hline 11 \text{ lb } 16 \text{ oz} \end{array}$$

e. $5 \text{ lb } 8 \text{ oz} + 9 \text{ oz} = \underline{6} \text{ lb } \underline{1} \text{ oz}$

$$\begin{array}{r} 5 \text{ lb } 17 \text{ oz} \\ - 16 \text{ oz} \\ \hline 5 \text{ lb } 1 \text{ oz} \end{array}$$

f. $21 \text{ lb } 8 \text{ oz} + 6 \text{ lb } 9 \text{ oz} = \underline{28} \text{ lb } \underline{1} \text{ oz}$

$$\begin{array}{r} 27 \text{ lb } 17 \text{ oz} \\ - 16 \text{ oz} \\ \hline 27 \text{ lb } 1 \text{ oz} \end{array}$$

g. $\boxed{23 \text{ lb } 1 \text{ oz}} - 15 \text{ oz} = \underline{22} \text{ lb } \underline{2} \text{ oz}$

$$\begin{array}{r} 23 \text{ lb } 1 \text{ oz} \\ - 15 \text{ oz} \\ \hline 22 \text{ lb } 17 \text{ oz} \end{array}$$

h. $\boxed{89 \text{ lb } 2 \text{ oz}} - 16 \text{ lb } 4 \text{ oz} = \underline{72} \text{ lb } \underline{14} \text{ oz}$

$$\begin{array}{r} 89 \text{ lb } 18 \text{ oz} \\ - 16 \text{ lb } 4 \text{ oz} \\ \hline 72 \text{ lb } 14 \text{ oz} \end{array}$$

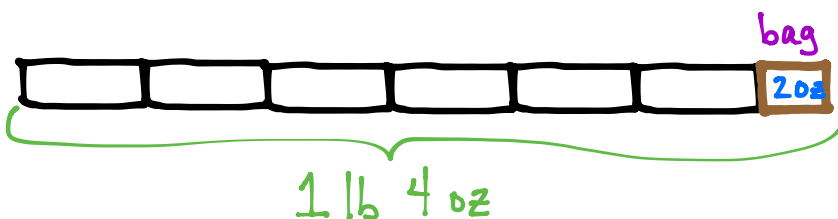
2. When David took his dog, Rocky, to the vet in December, Rocky weighed 29 pounds 9 ounces. When he took Rocky back to the vet in March, Rocky weighed 34 pounds 4 ounces. How much weight did Rocky gain?

$$29 \text{ lb } 9 \text{ oz} + \boxed{} = 34 \text{ lb } 4 \text{ oz}$$

$$\begin{array}{r} 34 \text{ lb } 4 \text{ oz} \\ - 29 \text{ lb } 9 \text{ oz} \\ \hline 33 \text{ lb } 20 \text{ oz} \end{array} = 4 \text{ lb } 11 \text{ oz}$$

Rocky gained 4 pounds
11 ounces.

3. Bianca had 6 identical jars of bubble bath. She put them all in a bag that weighed 2 ounces. The total weight of the bag filled with the six jars was 1 pound 4 ounces. How much did each jar weigh?



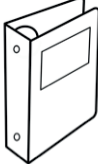





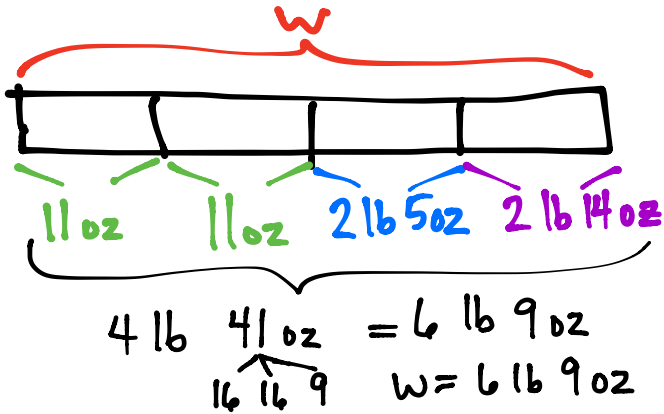
$$\begin{aligned} 1 \text{ lb } 4 \text{ oz} &= 20 \text{ oz} \\ 20 \text{ oz} - 2 \text{ oz} &= 18 \text{ oz} \\ 18 \div 6 &= 3 \end{aligned}$$

Each jar weighs 3 ounces.

4. Use the information in the chart about Melissa’s school supplies to answer the following questions:

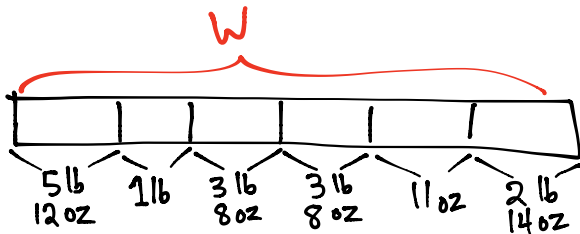
a. On Wednesdays, Melissa packs only two notebooks and a binder into her backpack. How much does her full backpack weigh on Wednesdays?

 Textbook 3 lb 8 oz	 Supply Case 1 lb	 Binder 2 lb 5 oz
 Laptop 5 lb 12 oz	 Notebook 11 oz	 Backpack (empty) 2 lb 14 oz



Her backpack weighs 6 pounds 9 ounces on Wednesday.

b. On Thursdays, Melissa puts her laptop, supply case, two textbooks, and a notebook in her backpack. How much does her full backpack weigh on Thursdays?



$$W = 14 \text{ lb} + 12 \text{ oz} + 8 \text{ oz} + 8 \text{ oz} + 11 \text{ oz} + 14 \text{ oz}$$

1 lb
1 lb
4
5
5

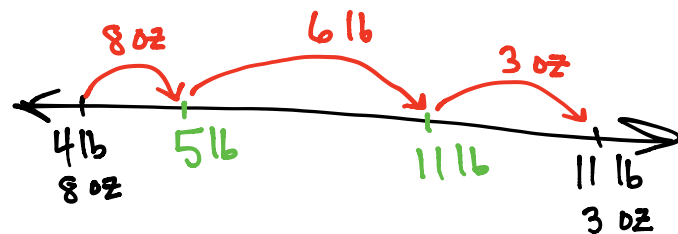
$$W = 17 \text{ lb} 5 \text{ oz}$$

Her backpack weighs 17 lb 5 oz on Thursdays.

c. How much more does the backpack weigh with 3 textbooks and a notebook than it does with just 1 textbook and the supply case?

$$\begin{array}{r}
 3 \text{ lb } 8 \text{ oz} \rightarrow 1 \text{ lb} \\
 3 \text{ lb } 8 \text{ oz} \\
 3 \text{ lb } 8 \text{ oz} \rightarrow 1 \text{ lb} \\
 + \quad 11 \text{ oz} \leftarrow 8 \text{ oz} \\
 \hline
 9 \text{ lb } 2 \text{ lb } 3 \text{ oz} \\
 11 \text{ lb } 3 \text{ oz}
 \end{array}$$

$$\begin{array}{r}
 3 \text{ lb } 8 \text{ oz} \\
 + 1 \text{ lb} \\
 \hline
 4 \text{ lb } 8 \text{ oz}
 \end{array}$$



It weighs 6 lb 11 oz more.