



Name \_\_\_\_\_

Date \_\_\_\_\_

Draw a tape diagram to solve the following problems.

1. Timmy drank 2 quarts of water yesterday. He drank twice as much water today as he drank yesterday. How many cups of water did Timmy drink in the two days?

Yesterday 

Today 

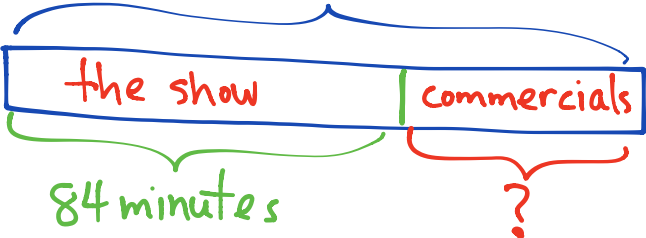
6 quarts

He drank 24 cups of water in the two days.

1 quart = 4 cups  
6 quarts = 24 cups

2. Lisa recorded a 2-hour television show. When she watched it, she skipped the commercials. It took her 84 minutes to watch the show. How many minutes did she save by skipping the commercials?


2 hours = 120 minutes




$$\begin{array}{r} 120 \\ - 84 \\ \hline 36 \end{array}$$

Lisa saved 36 minutes.

3. Jason bought 2 pounds of cashews. Sarah ate 9 ounces. David ate 2 ounces more than Sarah. How many ounces were left in Jason's bag of cashews?

Sarah 

David 

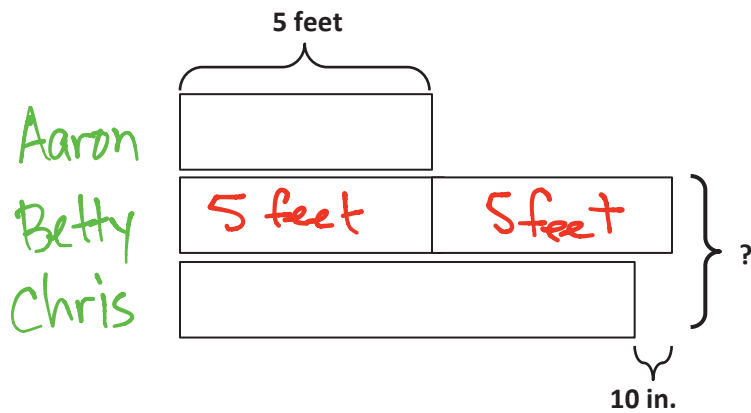
1 pound = 16 ounces  
2 pounds = 32 ounces

9 + 9 + 2 = 20 ounces  
They ate 20 ounces of cashews.

$$\begin{array}{r} 32 \\ - 20 \\ \hline 12 \end{array}$$

There are 12 ounces left in Jason's bag.

4. a. Label the rest of the tape diagram below. Solve for the unknown.



$$5 \text{ ft} + 5 \text{ ft} = 10 \text{ ft}$$

$$10 \text{ ft} \times 12 = 120 \text{ inches (Betty)}$$

$$120 \text{ inches} - 10 \text{ inches} = 110 \text{ inches (Chris)}$$

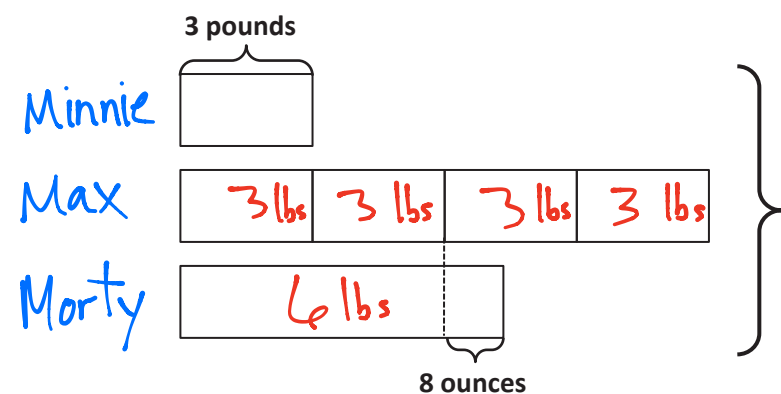
$$120 \text{ in} + 110 \text{ in} = 230 \text{ inches}$$

- b. Write a problem of your own that could be solved using the diagram above.

Answers will vary.

Aaron, Betty, and Chris each throw a paper airplane. Aaron's plane flies 5 feet. Betty's plane flies twice as far as Aaron's plane. Chris's plane flies 10 inches shorter than Betty's. What is the combined distance flown by Betty's and Chris's planes?

5. Create a problem of your own using the diagram below, and solve for the unknown.



I have 3 dogs. Minnie weighs 3 pounds. Max weighs 4 times as much as Minnie.

Morty weighs 10 ounces more than half Max's weight. What is the total weight of all three dogs?

$$\text{Minnie} = 3 \text{ pounds}$$

$$\text{Max} = 4 \times 3 = 12 \text{ pounds}$$

$$\text{Morty} = 6 \text{ pounds} + 8 \text{ ounces}$$

$$21 \text{ pounds} \\ 8 \text{ ounces}$$

$$21 \text{ pounds} \\ 8 \text{ ounces}$$