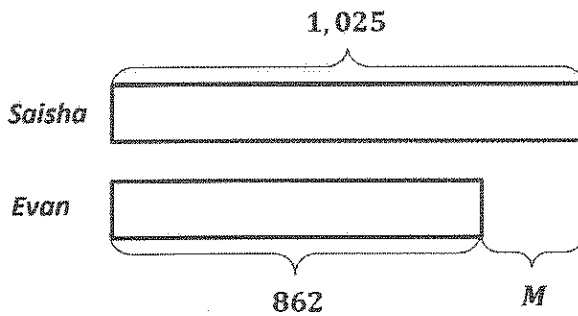


### G4-M1-Lesson 17

Draw a tape diagram to represent each problem. Use numbers to solve, and write your answer as a statement.

- Saisha has 1,025 stickers. Evan only has 862 stickers. How many more stickers does Saisha have than Evan?



I draw Evan's tape just a bit shorter than Saisha's since 862 is pretty close to 1,025. I label the unknown as 'M'.

$$M = 1,025 - 862$$

$$M = 163$$

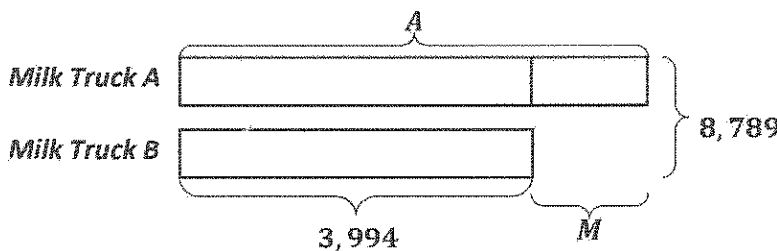
$$\begin{array}{r} 9 \\ 0 \cancel{10} \cancel{12} \\ \cancel{1} \cancel{0} \cancel{2} \cancel{5} \\ - \quad 8 \quad 6 \quad 2 \\ \hline 1 \quad 6 \quad 3 \end{array}$$

$$\begin{array}{r} 1 \quad 6 \quad 3 \\ + \quad 8 \quad 6 \quad 2 \\ \hline 1, \quad 0 \quad 2 \quad 5 \end{array}$$

I can check my answer by adding. The sum is 1,025. My answer is correct!

Saisha has 163 more stickers than Evan.

- Milk Truck B contains 3,994 gallons of milk. Together, Milk Truck A and Milk Truck B contain 8,789 gallons of milk. How many more gallons of milk does Milk Truck A contain than Milk Truck B?



$$A = 8,789 - 3,994$$

$$A = 4,795$$

$$\begin{array}{r} 16 \quad 18 \\ 7 \quad 6 \quad 8 \quad 9 \\ \cancel{8} \quad \cancel{7} \quad \cancel{8} \quad 9 \\ - \quad 3, \quad 9 \quad 9 \quad 4 \\ \hline 4, \quad 7 \quad 9 \quad 5 \end{array}$$

$$M = 4,795 - 3,994$$

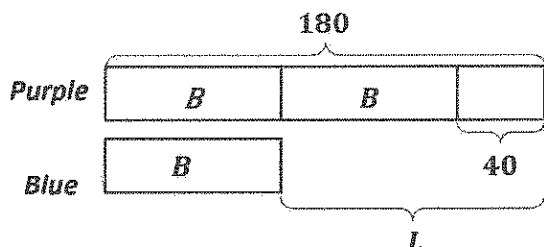
$$M = 801$$

$$\begin{array}{r} 3 \quad 17 \\ \cancel{4} \quad \cancel{7} \quad 9 \quad 5 \\ - \quad 3, \quad 9 \quad 9 \quad 4 \\ \hline 8 \quad 0 \quad 1 \end{array}$$

My picture shows me that in order to solve for M, I must first solve for A.

Milk Truck A contains 801 more gallons of milk than Milk Truck B.

3. The length of the purple streamer measured 180 inches. After 40 inches were cut from it, the purple streamer was twice as long as the blue streamer. At first, how many inches longer was the purple streamer than the blue streamer?



I use unit language to help me solve. The purple streamer is now 140 inches long.

$$2B = 18 \text{ tens} - 4 \text{ tens}$$

$$2B = 14 \text{ tens or } 140$$

$$B = 14 \text{ tens} \div 2$$

$$B = 7 \text{ tens}$$

$$B = 70$$

I divide to find the length of the blue streamer.

$$L = 180 - 70$$

$$L = 18 \text{ tens} - 7 \text{ tens}$$

$$L = 11 \text{ tens}$$

$$L = 110$$

At first, the purple streamer was 110 inches longer than the blue streamer.

I subtract the length of the blue streamer from the original length of the purple streamer.