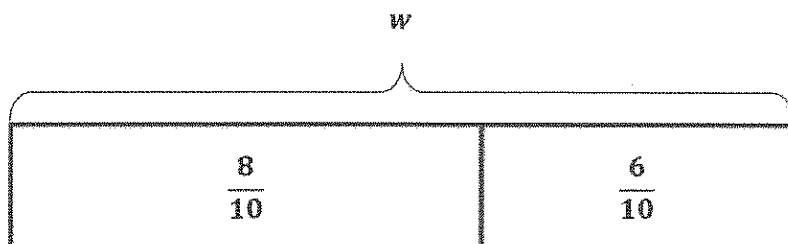


G4-M5-Lesson 19

Use the RDW process to solve.

1. Noah drank $\frac{8}{10}$ liter of water on Monday and $\frac{6}{10}$ liter on Tuesday. How many liters of water did Noah drink in the 2 days?



I draw a tape diagram to model the problem. The parts in my tape diagram represent the water Noah drank on Monday and Tuesday. I use the variable w to represent the liters of water Noah drank on Monday and Tuesday.

$$\frac{8}{10} + \frac{6}{10} = w$$

I add the parts in my tape diagram to find the total amount of water that Noah drank.

$$\frac{8}{10} + \frac{6}{10} = \frac{14}{10} = 1\frac{4}{10}$$

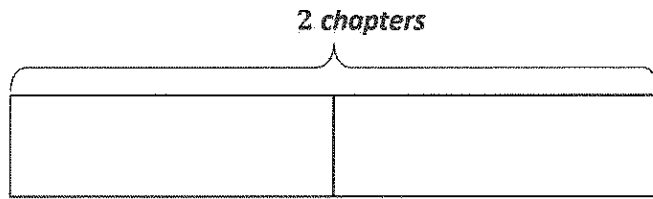
Since the addends have like units, I add the numerators to get $\frac{14}{10}$. I use a number bond to decompose $\frac{14}{10}$ into a whole number and a fraction. This helps me rename $\frac{14}{10}$ as a mixed number.

$$w = 1\frac{4}{10}$$

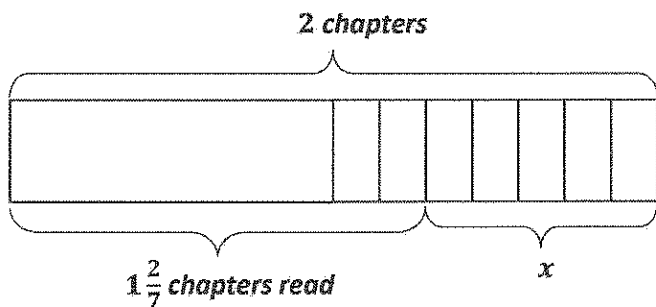
Noah drank $1\frac{4}{10}$ liters of water.

I write a statement to answer the question. I also think about the reasonableness of my answer. The water drunk on each day is less than 1 liter, so I would expect to get a total less than 2 liters. My answer of $1\frac{4}{10}$ liters is a reasonable total amount.

2. Muneeb had 2 chapters to read for homework. By 9:00 p.m., he had read $1\frac{2}{7}$ chapters. What fraction of chapters is left for Muneeb to read?



I can draw a tape diagram with 2 equal parts to represent the 2 chapters of the book.



To show $1\frac{2}{7}$ on my tape diagram, I partition one chapter into sevenths. I label the amount that Muneeb has read and the amount that is left, x .

$$2 - 1\frac{2}{7} = x$$

The unknown in my tape diagram is one of the parts, so I subtract the known part, $1\frac{2}{7}$, from the whole, 2.

$$2 - 1\frac{2}{7} = \frac{5}{7}$$

I use a number bond to show how to decompose one of the chapters into sevenths. My tape diagram shows that there is $\frac{5}{7}$ of a chapter left. My equation shows that, too!

$$x = \frac{5}{7}$$

Muneeb has $\frac{5}{7}$ chapter left to read.

Muneeb started with 2 chapters to read. He read 1 chapter and a little more, so he should have less than 1 chapter left. My answer of $\frac{5}{7}$ chapter is a reasonable amount left because it's less than 1 chapter.