G3-M2-Lesson 10
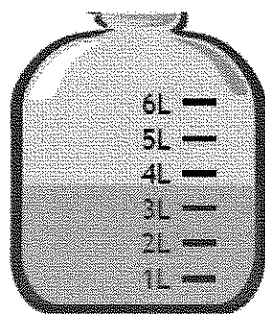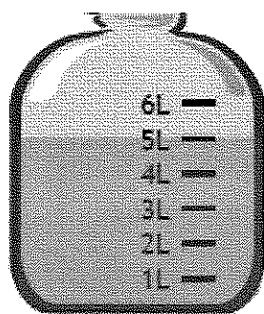
1. Estimate the amount of liquid in each container to the nearest liter.
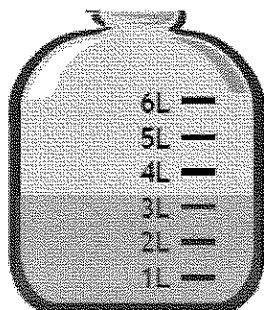
The liquid in this container is between 3 liters and 4 liters. Since it is more than halfway to the next liter, 4 liters, I can estimate that there are about 4 liters of liquid.

__4 liters__

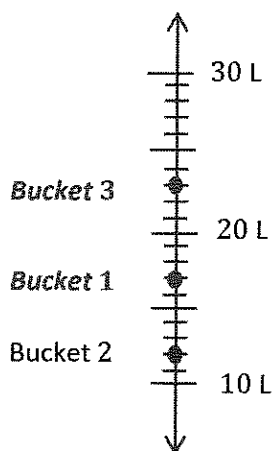The liquid in this container is at exactly 5 liters.

__5 liters__

The liquid in this container is between 3 liters and 4 liters. Since it is less than halfway to the next liter, 4 liters, I can estimate that there are about 3 liters of liquid.

__3 liters__

Lesson 10: Estimate and measure liquid volume in liters and milliliters using the vertical number

EUREKA MATH

2. Manny is comparing the capacity of buckets that he uses to water his vegetable garden. Use the chart to answer the questions.

Bucket	Capacity in Liters
Bucket 1	17
Bucket 2	12
Bucket 3	23

a. Label the number line to show the capacity of each bucket. Bucket 2 has been done for you.

I can use the tick marks to help me locate the correct place on the number line for each bucket. I can label Bucket 1 at 17 liters and Bucket 3 at 23 liters.

b. Which bucket has the greatest capacity?

Bucket 3 has the greatest capacity.

c. Which bucket has the smallest capacity?

Bucket 2 has the smallest capacity.

I can use the vertical number line to help me answer both of these questions. I can see that the point I plotted for Bucket 3 is higher up the number line than the others, so it has a larger capacity than the others. I also see that the point I plotted for Bucket 2 is lowest on the number line, so it has the smallest capacity.

d. Which bucket has a capacity of about 10 liters?

Bucket 2 has a capacity of about 10 liters.

I notice that Bucket 2 is closest to 10 liters, so it has a capacity of about 10 liters.

e. Use the number line to find how many more liters Bucket 3 holds than Bucket 2.

Bucket 3 holds 11 more liters than Bucket 2.

To solve this problem, I can count up on the number line from Bucket 2 to Bucket 3. I'll start at 12 liters because that is the capacity of Bucket 2. I count up 8 tick marks to 20 liters, and then I count 3 more tick marks to 23, which is the capacity of Bucket 3. I know that $8 + 3 = 11$, so Bucket 3 holds 11 more liters than Bucket 2.