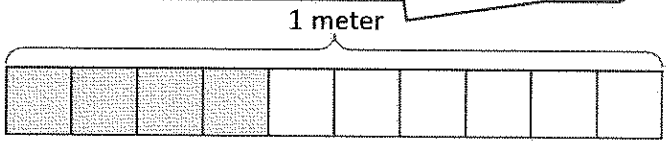
G4-M6-Lesson 4

1 meter equals 100 centimeters. When a meter is decomposed into 10 equal parts, 1 part equals $\frac{1}{10}$ meter or 10 centimeters.

1.

a. What is the length of the shaded part of the meter stick in centimeters?



40 centimeters

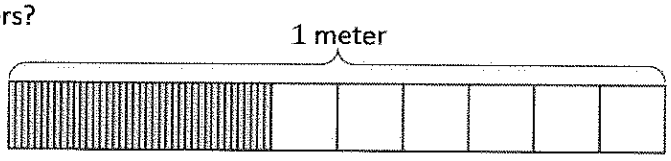
b. What fraction of a meter is 4 centimeters?

$\frac{4}{100}$ meter

Each tenth of a meter would need to be decomposed into 10 equal parts to show all 100 centimeters in 1 meter. To represent 4 centimeters, I would shade 4 of the 100 parts.

c. What fraction of a meter is 40 centimeters?

$\frac{4}{10}$ meter or $\frac{40}{100}$ meter



1 out of 100 centimeters is 1 hundredth centimeter.

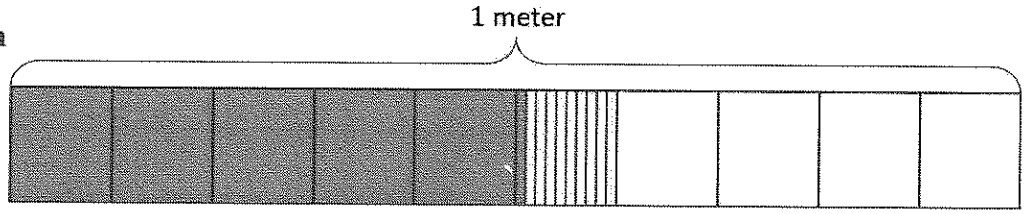
2. Fill in the blank.

$$\frac{3}{10}\text{m} = \frac{30}{100}\text{m}$$

3. On the meter stick, shade in the amount shown. Then, write the equivalent decimal.

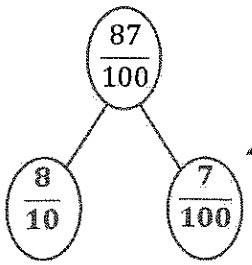
$$\frac{51}{100}\text{m} = 0.51\text{ m}$$

$$\frac{5}{10} \quad \frac{1}{100}$$



I shade 5 tenths of a meter. After partitioning the next tenth meter into 10 equal parts, I shade 1 hundredth meter more.

4. Draw a number bond, pulling out the tenths from the hundredths. Write the total as the equivalent decimal.



0.87

8 tenths is the same as 80 hundredths.

I can decompose a fraction like I decompose a whole number. I break 87 hundredths into 80 hundredths and 7 hundredths.