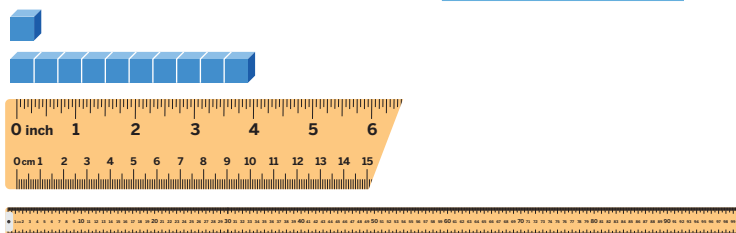


In this sub-unit . . .

- We estimated and measured the lengths of objects in **centimeters** and **meters**. We used different measurement tools, such as centimeter cubes, 10-centimeter rods, rulers, and **metersticks**.



- We saw that **rulers** represent equal length units using numbered tick marks to show the distance in length units from 0.

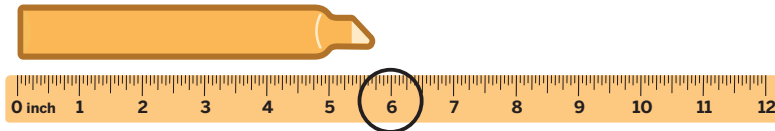


🔥 **Math tip:** You can use a ruler to find the length of an object by lining up the edge of the object with the 0 on the ruler or by counting the number of length units between the endpoints of the object.

- A **meterstick** is a longer measurement tool that can be used to measure objects in centimeters or meters. The shorter the length unit, the more length units it takes to equal the length of the object.
 - There are 100 centimeters in 1 meter. **A centimeter is shorter than a meter.**
- 🔥 **Math tip:** Using longer length units, such as a meter, can be helpful when measuring longer objects.

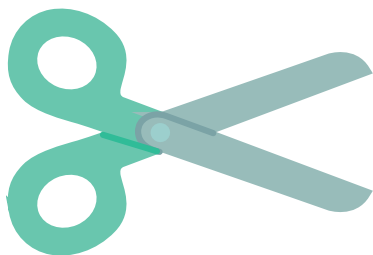
In this sub-unit . . .

- We estimated and measured the lengths of objects in **inches** and **feet** — 2 standard length units from the U.S. Customary system.



🔥 **Math tip:** If a measurement falls between 2 numbers on the ruler, choose the number closer to the end of the object as the measurement.

- We noticed we can make reasonable estimates of length by imagining a measurement tool, thinking about the length of the unit, or using the actual lengths of other objects.



I used the inch tile to help me make an estimate. I think the length of the scissors is about 4 inches long.

- The longer the length unit, the less length units it takes to equal the length of the object.
 - There are 12 inches in 1 foot. **An inch is longer than a centimeter, but shorter than a foot.**

🔥 **Math tip:** You can use what you know about a unit of measure, such as inches and feet, to help you choose a measurement tool.

In this sub-unit . . .

- We solved story problems that have more than 1 unknown amount.

Lena found a flower garland that was 82 inches long. She cut a piece that was 25 inches long for Orson. Then she cut another piece that was 14 inches long for the set designer. How long is Lena's flower garland now?

$$82 - 25 = 57$$

57 inches left after cutting Orson's piece.

$$57 - 14 = 43$$

43 inches left after cutting both pieces.

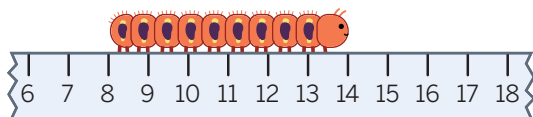
- We noticed that the unknown amount in story problems involving measurement can be the length of the shorter object, the length of the longer object, or the difference between lengths.

Jada's lizard is 76 centimeters long. Diego's lizard is 52 centimeters shorter than Jada's lizard. How long is Diego's lizard?


Shorter length unknown

$$76 - 52 = \underline{\quad}$$

- We found the length of objects without starting at 0 on a measurement tool by adding, subtracting, or counting the equal length units between the starting and ending points of the object.



$$14 - 8 = 6 \quad \underline{6} \text{ inches}$$

 **Math tip:** The length of the object will stay the same no matter where you start measuring.