



# Meters and Kilometers

Let's explore measurements in meters and in kilometers.

## Warm-up

### Number Talk: Times Hundreds and Thousands

Find the value of each expression mentally.

- $3 \times 100$

- $40 \times 100$

- $43 \times 100$

- $43 \times 1,000$

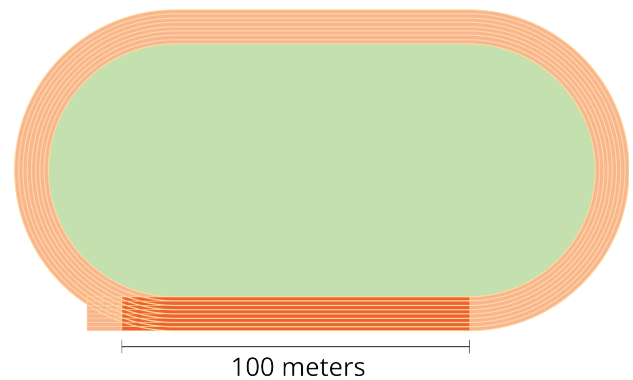


## Activity 1

### How Long Is 1 Kilometer?

There are 1,000 meters in 1 kilometer.

1. The shaded section of the track is the length of a 100-meter race. How many 100-meter races does it take to travel 1 kilometer?



2. Your teacher will give you images of something with a length or a height measured in meters.

About how many of the items in the handout are needed to make 1 kilometer?  
Explain or show how you know.

3. Work with your group to write a number in the blank so that each statement is true. Decide if your length is “about” or “exactly” 1 kilometer, and circle the correct word.
- a. One kilometer is the length of (about, exactly) \_\_\_\_\_ soccer fields.
  - b. One kilometer is the length of (about, exactly) \_\_\_\_\_ Statues of Liberty.
  - c. One kilometer is the length of (about, exactly) \_\_\_\_\_ Olympic-size swimming pools.
  - d. One kilometer is the length of (about, exactly) \_\_\_\_\_ basketball courts.
4. Estimate where you might end up if you travel 1 kilometer from your school's front door.



Activity 2

Meters and Kilometers

1. Complete the table with the unknown lengths in meters or in kilometers.

| kilometers (km) | meters (m) |
|-----------------|------------|
| $\frac{1}{2}$   |            |
| 1               | 1,000      |
| 5               |            |
|                 | 6,000      |
| $8\frac{1}{2}$  |            |
| 10              |            |
|                 | 12,000     |
| 27              |            |

2. Andre says 100 meters is longer than 10 kilometers. Do you agree or disagree? Explain or show your reasoning.

3. Which is greater?
- a. 2,000 meters or 3 kilometers
  - b. 500 meters or 1 kilometer
  - c. 14 kilometers or 14,000 meters
  - d. 8 kilometers or 80,000 meters

