

Lesson 8: Meters and Kilometers

• Let's explore measurements in meters and kilometers.

Warm-up: Number Talk: Times Hundreds and Thousands

Find the value of each expression mentally.

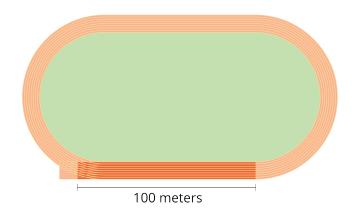
- 3 × 100
- 40 × 100
- 43 × 100
- 43 × 1,000



8.1: How Long is One Kilometer?

There are 1,000 meters in 1 kilometer.

1. The darkly 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 height measured in meters.

About how many of the items given to you 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.
 - 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.



8.2: Meters and Kilometers

1. Complete the table with the missing lengths in meters or 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? Be prepared to explain how you know.
 - 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