

Lesson 19: Trash Talk

• Let's multiply to solve problems about the area of the Great Garbage Patch.

Warm-up: Notice and Wonder: Trash and Ice

What do you notice? What do you wonder?





19.1: Square Kilometers

1. Mai walked around a soccer field 2 times. She thinks she walked about a kilometer. Do you agree with Mai? Show or explain your reasoning.

- 2. Decide whether each distance is less than a kilometer, about a kilometer, or more than a kilometer.
 - a. the distance across the state you live in
 - b. the distance from your home to school
 - c. the distance from your school room to the restroom
 - d. the distance you travel on a vacation in the car



19.2: So Much Trash

The Great Pacific Garbage Patch is a large area in the Pacific Ocean where trash has accumulated. Some estimates indicate that the garbage covers about 1,000,000 square kilometers.

- 1. Rhode Island is the smallest state. It is about 77 km long and 60 km wide. Which is larger, the garbage patch or Rhode Island? Explain or show your reasoning.
- 2. Delaware is about 154 km long and 48 km wide. Which is larger, the garbage patch or Delaware? Explain or show your reasoning.
- 3. New Mexico is about 596 km long and 552 km wide. Which is larger, the garbage patch or New Mexico?
- 4. Circle an area on the map of the U.S. that you think estimates the area of the garbage patch. Explain your thinking.

