Unit 8, Lesson 8

Fill the World's Largest Wagon

Let’s solve more problems about volume.

Warm-up

Notice and Wonder: Toy Boxes

What do you notice? What do you wonder?



Activity 1

Sand Wagon

The wagon bed is approximately 27 feet long, 13 feet wide, and 2 feet deep.

1. A 150-pound bag of sand fills about 9 cubic feet. How many bags of sand does it take to fill the wagon with sand?

2. A 150-pound bag of sand costs about $12. About how much does it cost to fill the wagon with sand? Explain or show your reasoning.

3. How many pounds of sand does the wagon hold when it is full? Explain or show your reasoning.

Activity 2

More Boxes

The bed of the big red wagon is approximately 27 feet long, 13 feet wide, and 2 feet deep.

The wagon is being used to deliver 4,000 boxes. Each box has side lengths of 2 feet by 2 feet by 2 feet. How many trips does the wagon have to make to deliver all the boxes? Explain or show your reasoning.