

Name: _____

Date: _____

1. Juliana has two pieces of rope.

- The first piece is $1\frac{1}{2}$ meters long
- The second piece is 2 meters long.

What is the total length, in centimeters, of the two pieces of rope?

- A. 300 centimeters
- B. 350 centimeters
- C. 3000 centimeters
- D. 3500 centimeters

2. Lincoln had 2 books in his backpack. One book has a mass of 3 pounds 7 ounces, and the other book has a mass of 2 pounds 10 ounces. What was the total mass, in ounces, of the books?

- A. 60
- B. 77
- C. 80
- D. 97

3. A science teacher has 0.4 liter of seawater. She gives each of her 22 students a container and a 5-milliliter spoon. She then asks her students to put two spoonfuls of seawater into their containers. How many milliliters of seawater will be left after all 22 students have filled their containers?

- A. 70
- B. 180
- C. 290
- D. 780

4. Mia buys 5 yards of ribbon to make bracelets. She needs 18 inches of ribbon to make 1 bracelet. How many bracelets can Mia make if she uses all the ribbon she buys?

- A. 90
- B. 10
- C. 3
- D. 2

5. Regina buys 24 inches of trim for a craft project.

a. What fraction of a yard does Regina buy?

b. If a whole yard of trim costs \$6, how much did Regina pay?

6. At Yo-Yo Yogurt, the scale says that Sara has 8 ounces of vanilla yogurt in her cup. Her father's yogurt weighs 11 ounces. How many pounds of frozen yogurt did they buy altogether? Express your answer as a mixed number.

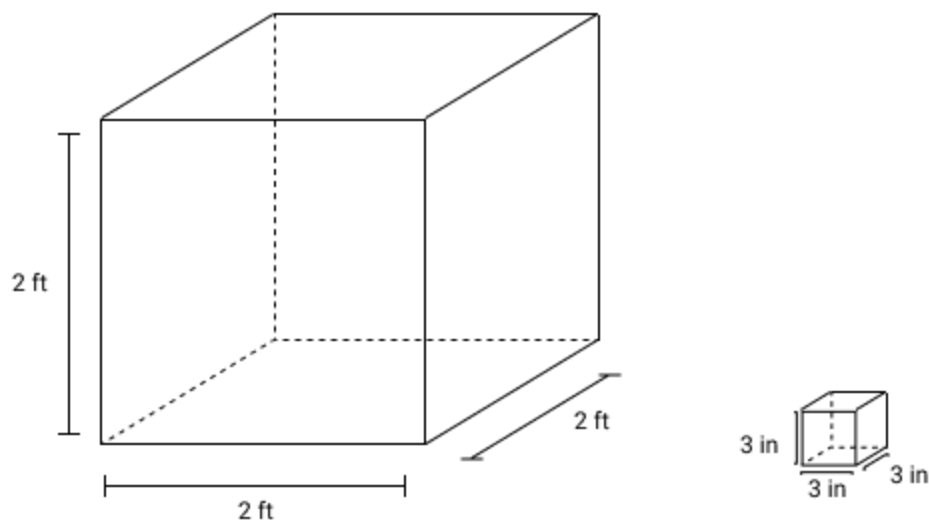
7. Pheng-Xu drinks 1 cup of milk every day for lunch. How many gallons of milk does he drink in 2 weeks?

8. Three dump trucks are carrying topsoil to a construction site. Truck A carries 3,545 lb, Truck B carries 1,758 lb, and Truck C carries 3,697 lb. How many tons of topsoil are the 3 trucks carrying altogether?

9. Melissa buys $3\frac{3}{4}$ gallons of iced tea. Denita buys 7 quarts more than Melissa. How much tea do they buy altogether? Express your answer in quarts.

10. Tanya buys 12 water bottles. Of those bottles, 5 hold 300 milliliters each and 7 hold 1.5 liters each. How much water, in liters, does Tanya buy?

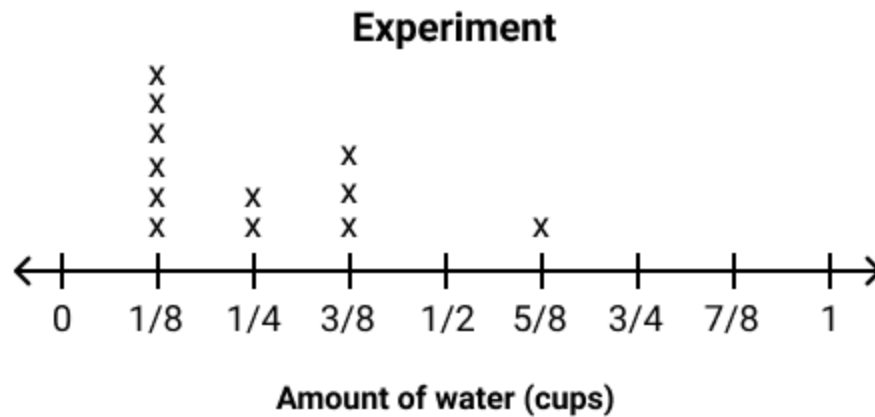
11. A company put bottles of lotion into boxes that are three-inch cubes. The boxes were then packed into a shipping crate, shown below.



How many boxes of lotion were packed into the shipping crate to fill it completely?

12. Harry's fitness trainer recommends that Harry drink 8 fluid ounces of water 8 times a day. Harry has a water bottle that holds $1\frac{1}{4}$ pints of water when filled. Today, he has filled the water bottle three times and drank all of the water each time. Harry claims that he drank the total amount of water recommended by his fitness trainer. Explain why Harry's claim is not true.

13. The line plot shows the amount of water used by 12 students during an experiment.



- a. Write and evaluate an expression using addition and multiplication to determine the total number of cups of water used by the 12 students during the experiment. Show or explain each step you used to evaluate the expression.
- b. The water used by the 12 students during the experiment was poured from a beaker. After the water was poured, $\frac{1}{4}$ gallon of water was left in the beaker. What was the total number of fluid ounces of water in the beaker before the water was poured by the 12 students? Show or explain each step you used to determine your answer.

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