

Multiplicative Comparison and Measurement: End-of-Unit Assessment

1. There are 93 students in the cafeteria. There are 3 times as many students in the cafeteria as there are students on the playground.

a. Write a multiplication equation that represents the situation.

b. How many students are on the playground? Explain or show your reasoning.

2. Select **all** true statements.

A. One meter is 1,000 kilometers.

B. One foot is 12 inches.

C. One meter is 100 centimeters.

D. One centimeter is 100 meters.

E. One kilometer is 1,000 meters.

3. The length of the table in inches is 72. What is the length of the table in feet?

A. 6

B. 60

C. 82

D. 864

4. The perimeter of a rectangle is 40 cm. Select **all** the true statements.

- A. If one side measures 10 cm, then it is a square.
- B. The rectangle cannot have a side that measures 21 cm.
- C. The rectangle cannot have a side that measures 15 cm.
- D. If one side measures $6\frac{3}{8}$ cm, then another side measures $13\frac{5}{8}$ cm.
- E. If one side measures 1 cm, then another side measures 39 cm.

5. Complete the table showing the number of ounces for the measurements given in pounds.

pounds	ounces
1	
5	
10	
20	
50	

6. A lake is 2,500 meters wide. Noah says that's 25 centimeters.

a. Explain why Noah's answer is not reasonable.

b. How many centimeters wide is the lake?

7. Han's dog eats $3\frac{1}{2}$ kilograms of food a week. Priya's dog eats 400 grams of food each day.

a. Explain why $\frac{1}{2}$ kilogram is 500 grams.

b. Which dog eats more food each week? Explain or show your reasoning.

c. How much more food? Explain or show your reasoning.