Sub-Unit 1 | Summary

In this sub-unit . . .

 We learned to use multiplication and the phrase "times as many" for comparing 2 quantities. We interpreted and created strip diagrams representing these comparison situations.

Diego		starfish group	7			
Priya		crab group	7	7	7	7

Diego has 5 cubes. Priya has 3 times as many cubes as Diego. The starfish group has 7 kids in it. The crab group has 4 times as many kids as the starfish group.

 We solved story problems involving comparison and represented unknown values in equations with a letter.

Penny swam 8 times as many laps as Lucas. Lucas swam 7 laps. How many laps did Penny swim?

$$8 \times 7 = p$$

 $8 \times 7 = 56$
Penny swam 56 laps.

Lucas swam some laps. Penny swam 72 laps, which is 12 times as many laps as Lucas swam. How many laps did Lucas swim?

$$12 \times I = 72$$

 $72 \div 12 = 6$
Lucas swam 6 laps.

We identified relationships between 2 numbers in an input-output table.

Input	Rule	Output
1	× 10	10
2	× 10	20
3	× 10	30

Math tip: Look for patterns in the input and output to help you identify a rule for all values.

Sub-Unit 2 | Summary

In this sub-unit . . .

 We used the relationship between units to convert units of length measurement within the U.S. Customary and metric systems.

1 yard is 3 times as long as 1 foot.

1 kilometer is 1,000 times as long as 1 meter.

 We learned about various units for measuring liquid volume and converted units within a given system.

> 1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts

- **Math tip:** A conversion table can help you understand the relationship between units to convert units of measurement.
- We solved comparison problems where converting measurements was necessary.

Clare's cat has a mass of 8 kilograms. Diego's cat has a mass of 5,000 grams. Whose cat has a greater mass?

 $8 \times 1,000 = 8,000$ 8,000 grams > 5,000 grams

Clare's cat has a greater mass.

Sub-Unit 3 | Summary

In this sub-unit . . .

• We calculated **profit** in given situations.

Lucas sells 3 batches of cinnamon banana nut muffins for \$12 each. The cost to make them is \$25.71. What is his profit?

profit

$$\begin{array}{r}
9 \\
5 \ \cancel{1010} \\
3.6 \ \cancel{000} \\
-25.71 \\
\hline
10.29
\end{array}$$

We represented data on a <u>stem-and-leaf plot</u>.

Muffins Sold Stem Leaf 8 0 4 7 7 9 → 80, 84, 87, 87, 89 9 4 4 4 6 7 8 → 94, 94, 94, 94, 96, 97, 98 10 0 6 → 100, 106

- **Math tip:** The key can help you understand how the numbers are separated by place value.
- We used data from frequency tables, dot plots, and stem-and-leaf plots to solve problems.

What is the total amount of allowance earned by Penny's friends in a single week?

Amount	Number of students		
\$10.50	M		
\$15.00			

$$\begin{array}{c}
2 \\
10.50 \\
10.50 \\
10.50 \\
+ 10.50 \\
\hline
52.50 \\
 & 82.50
\end{array}$$