Lesson 17: Use the Four Operations to Solve Problems

- Let's use the four operations to solve problems.

Warm-up: True or False: Multiply by 10

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $2 \times 40 = 2 \times 4 \times 10$

- $2 \times 40 = 8 \times 10$

- $3 \times 50 = 15 \times 10$

- $3 \times 40 = 7 \times 10$

17.1: Questions about a Situation

What questions could you ask about this situation?

There are 142 guests at a party. All the guests are in 2 rooms. Room A has 94 guests. Room B has 6 tables that each have the same number of guests. There are 4 pieces of silverware and 1 plate for each guest.

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17.2: Party Problems

For each problem:

a. Write an equation to represent the situation. Use a letter for the unknown quantity.

b. Solve the problem. Explain or show your reasoning.
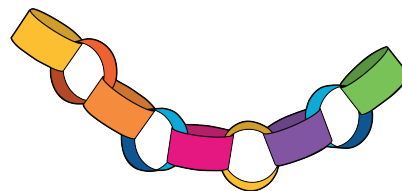
1. Kiran is making paper rings each day to decorate for a party. From Monday to Thursday he was able to complete 156 rings. Friday, Kiran and 2 friends worked on making more rings. Each of them made 9 more rings. How many rings did they make over the week?
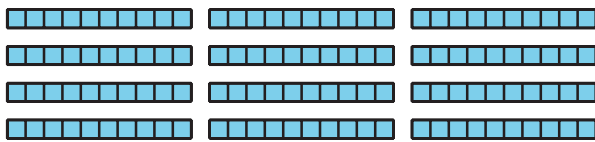
2. Mai has 168 muffins. She put 104 of the muffins in a basket. She packed the rest of the muffins into 8 boxes with the same number of muffins. How many muffins were in each box?

3. There are 184 cups on a table. Three tables with 8 people at each table come up to get drinks and each use a cup. How many cups are on the table now?
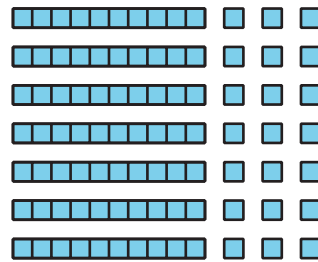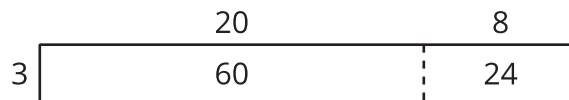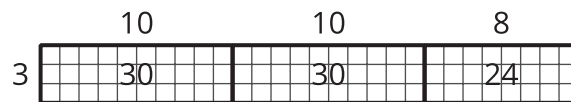
Section Summary

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In this section, we learned how to multiply single-digit numbers by multiples of ten. We used strategies to multiply teen numbers and numbers greater than 20.

$$4 \times 30$$

$$7 \times 13$$

$$3 \times 28$$