## 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.

* $2×40=2×4×10$
* $2×40=8×10$
* $3×50=15×10$
* $3×40=7×10$

### 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.

### 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.



$4×30$



$7×13$





$3×28$



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