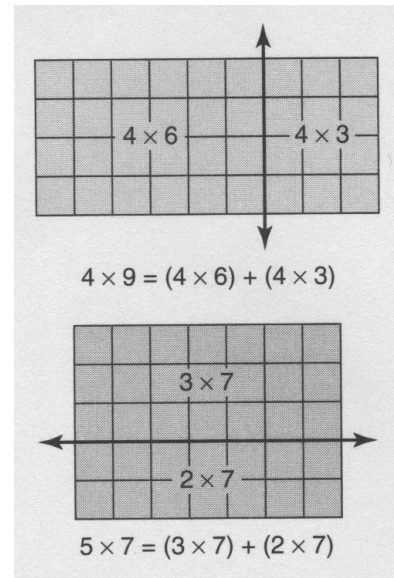


**USEFUL MULTIPLICATION AND DIVISION PROPERTIES: Slice It Up**

**Directions:** In pairs, you will be given several sheets of graph paper. For each multiplication problem, find all of the different ways to make a single slice through the rectangle. (You will have to draw multiple rectangles for each problem.)

For each slice, write an equation below the array. The individual expressions can be written in the arrays.

For each multiplication problem, record all of its equations on the lines below. Be ready to discuss the different equations. (How many are there? What are they?).



1.  $4 \times 9$  \_\_\_\_\_

---



---



---

2.  $5 \times 7$  \_\_\_\_\_

---



---



---

3.  $6 \times 10$  \_\_\_\_\_

---



---



---

4.  $8 \times 8$  \_\_\_\_\_

---



---



---

Name \_\_\_\_\_

Date \_\_\_\_\_

**PLACE VALUE: Good Questions for Math Teaching**

**Directions:** Solve. For each number, record (1) your answer, (2) the strategy you used to find your answer, and (3) any additional thoughts that you may have. You may do your work on a separate piece of paper.

1. How many numbers can you write with 8 in the hundreds place?

---

---

---

---

2. How many four-digit numbers can you make using the digits 1, 2, 3, and 4? You can only use each digit once in each number.

---

---

---

---

3. How many ways can you rename 1,265 as the sum of smaller numbers?

---

---

---

---

4. I wrote down a number with one zero in it, but I cannot remember what it was. I know it was between 500 and 800. What might it have been?

---

---

---

---