

Name \_\_\_\_\_

## Regroup to Make Sense

**1. Apples in Baskets** - There are 3 baskets, and each basket has 5 bags. Each bag holds 4 apples. Show two ways to group the numbers to find the total apples.

Way 1:  $(3 \times 5) \times 4 =$  \_\_\_\_\_ Way 2:  $3 \times (5 \times 4) =$  \_\_\_\_\_

Which is easier to solve mentally? \_\_\_\_\_

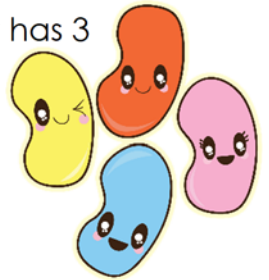
**2. Boxes of Markers** - Each box has 10 packs of markers, and each pack contains 6 markers. Write and solve two associative property equations for this situation.

Equation 1:  $(10 \times 6) \times 1 =$  \_\_\_\_\_ Equation 2:  $10 \times (6 \times 1) =$  \_\_\_\_\_

What do both equal? \_\_\_\_\_

**3. Lunch Orders** - A cafeteria sells 4 trays of sandwiches, and each tray has 3 boxes. Each box contains 5 sandwiches.

- a) Write two different groupings for this situation.
- b) Solve both groupings.
- c) Explain why the answers are the same.



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**4. Choose an easier way to group and solve:**

a)  $25 + 75 + 100 =$  \_\_\_\_\_ Group as:  $(25 + 75) + 100$  or  $25 + (75 + 100)$ ?

Which grouping makes it easier? \_\_\_\_\_

b)  $4 \times 5 \times 25 =$  \_\_\_\_\_ Group as:  $(4 \times 5) \times 25$  or  $4 \times (5 \times 25)$ ?

Which grouping makes it easier? \_\_\_\_\_

**5. Show how you could group these numbers to make the math simple.**

a)  $50 + 25 + 75 =$  \_\_\_\_\_ b)  $2 \times 8 \times 50 =$  \_\_\_\_\_

**6. Fill in the missing number.**

$(7 + 9) + \underline{\quad} = 7 + (9 + 2)$  Answer: \_\_\_\_\_

$(3 \times 4) \times \underline{\quad} = 3 \times (4 \times 5)$  Answer: \_\_\_\_\_