

Name \_\_\_\_\_

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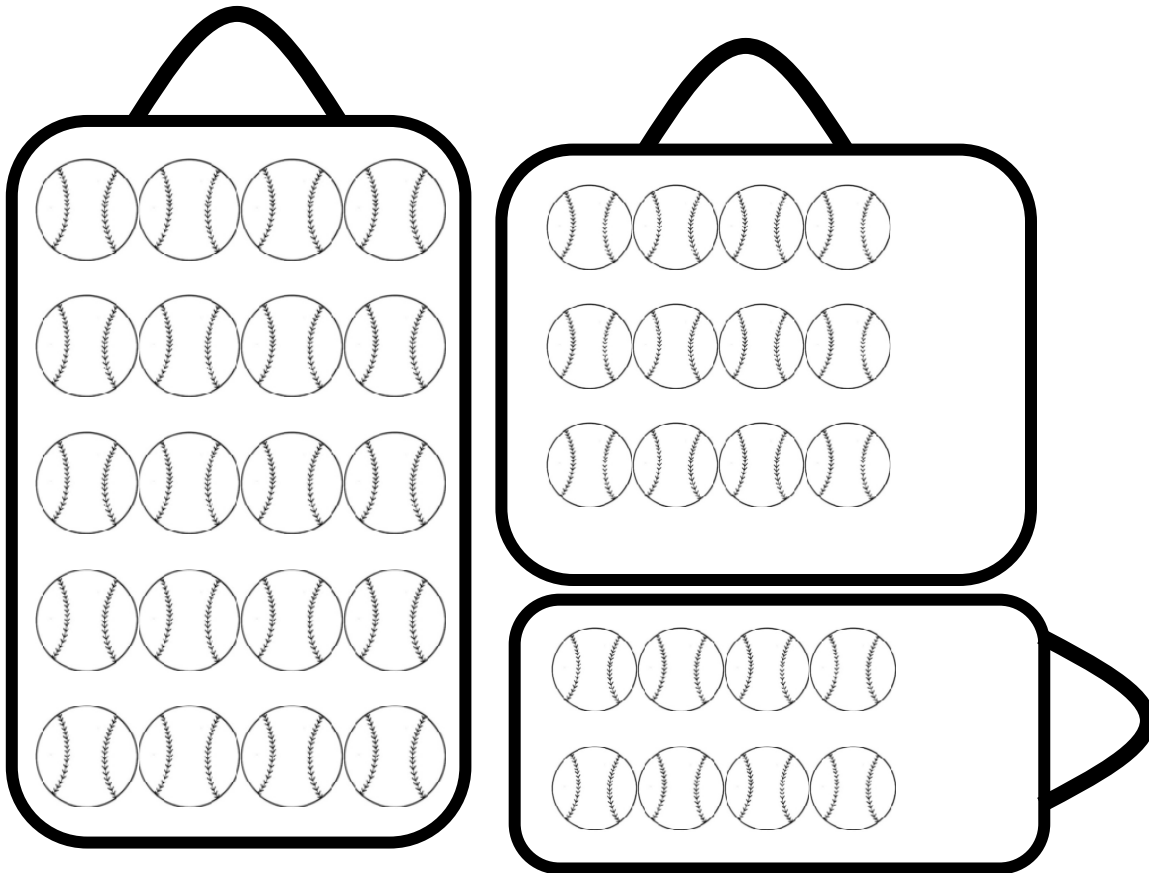
## Distributive Property of Multiplication Guided Lesson Explanation

1. If we look at the starting bag, we see 20 balls in 4 columns and 5 rows ( $4 \times 5$ ).

$$4 \times 5 = 4(2 + 3) = (4 \times 2) + (4 \times 3)$$

Rewritten as (Using the distributive property)

We can redraw this as Bag A (bigger) getting 3 rows of 4 balls and Bag B (smaller) getting 2 rows of 4 balls.



2. These problems should follow the distributive property.

$$A(B+C) = (A \times B) + (A \times C)$$

a)  $2(4 + 9) = (\underline{\quad} \times 4) + (\underline{\quad} \times 9)$

$$A(B+C) = (2 \times 4) + (2 \times 9)$$

b)  $8(3 + \underline{\quad}) = (8 \times 3) + (\underline{\quad} \times 7)$

$$A(B+C) = (A \times B) + (A \times C)$$

$$8(3 + 7) = (8 \times 3) + (8 \times 7)$$

