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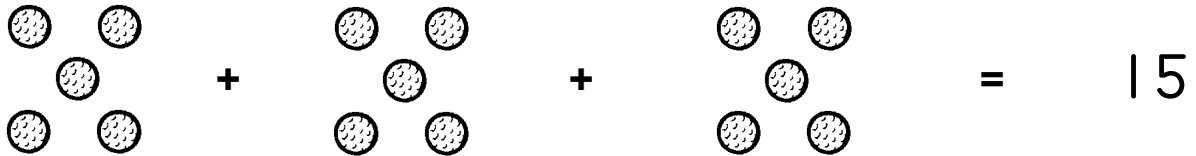
Have children refer to the following information as they complete the unit.

*Computing whole numbers* means to find an answer through the addition, subtraction, multiplication, and division of whole numbers. Use the activities to help select computation techniques that are appropriate to specific word problems.

## Addition and Multiplication

**Addition** is the process of adding two or more *addends* (numbers) to find a *sum* (total).

- Use pictures to add different groups of numbers.



- Use manipulatives to add different groups of numbers.
- Use numbers to add different groups of addends.

$$\begin{array}{r} 5 \\ + 5 \\ \hline 15 \end{array}$$

$$9 + 9 + 9 = 27$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline 12 \end{array}$$

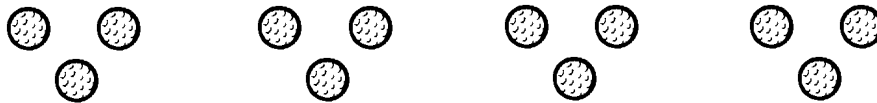
**Multiplication** is a shorter method of adding a repeated number of *factors* (addends) to find a *product* (answer). Look at the examples below.

$$5 + 5 + 5 = 15 \quad \text{or} \quad 3 \times 5 = 15 \quad \text{or} \quad 5 \times 3 = 15$$

$$6 + 6 + 6 = 18 \quad \text{or} \quad 6 \times 3 = 18 \quad \text{or} \quad 3 \times 6 = 18$$

$$8 + 8 + 8 + 8 = 32 \quad \text{or} \quad 8 \times 4 = 32 \quad \text{or} \quad 4 \times 8 = 32$$

- Use pictures to add and multiply to find an answer.

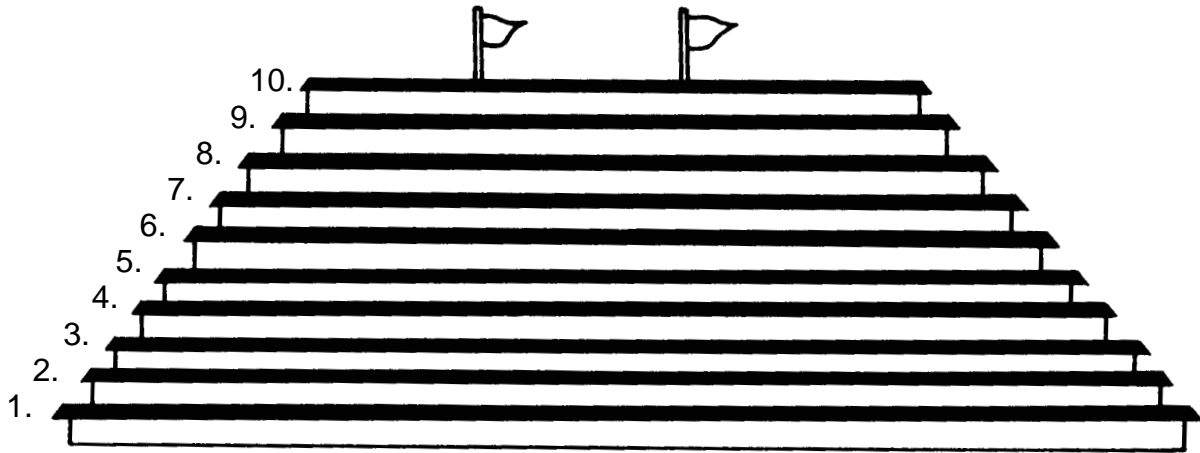


$$3 + 3 + 3 + 3 = 12$$

or

$$4 \times 3 = 12$$

- Use manipulatives to form groups of a repeated number. Add and multiply them to find an answer.



**Directions:** Before each game, Boyd and Carlos also help fans find their seats in the bleachers at the end of the football field. The bleachers have 10 rows of seats. Read and solve the word problems about the 10 rows of seats in the bleachers.

### Game One

1. In Game One, eight rows in the bleachers were filled with fans. Write a decimal to show the number of rows filled. \_\_\_\_\_

### Game Two

2. Game Two was a night game, and the fans filled five of the rows in the bleachers. Write a decimal that shows the number of rows that were filled. \_\_\_\_\_

### Game Three

3. It rained for the third game, so  $\frac{4}{10}$  of the bleachers were empty. Write a decimal that shows the number of rows filled. \_\_\_\_\_

### Game Four

4. The fourth game was played on a sunny day. Nine-tenths of the bleachers were filled with fans. How many rows were filled? \_\_\_\_\_ Write nine-tenths as a decimal. \_\_\_\_\_ Write as a decimal the number of rows not filled.  
\_\_\_\_\_

### Game Five

5. At the last game, Carlos and Boyd were very busy. All 10 rows were filled with screaming fans. After the game, the first three rows of fans ran onto the field because their team won. Write a decimal and its equivalent fraction to show how many rows of fans were still left in the bleachers. \_\_\_\_\_