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Module 1 Number Sense
Lesson 4 Distributive Properties

## Lesson Objectives

- Identify the Distributive Property by using physical models.
- Apply the Distributive Properties to simplify computations with whole numbers.


## Subtopic 1 Distributive Property Model 1-Digit Numbers

The Distributive Property of Multiplication over Addition states that multiplying a number and a sum is the same as multiplying the number by each part of the $\qquad$ and then
$\qquad$ , $4(5+2)=(4 \times 5)+(4 \times 2)$.


Solve the following products using the Distributive Property as shown.

$$
1 \quad 6 \cdot 5=6(3+2) \quad 2 \cdot 9=3(4+5)
$$

## Subtopic 2 Distributive Property Model 1-Digit Number Times 2-Digit



Solve the following products using the Distributive Property as shown.
$3 \quad 4(12)=4(10+2) \quad 4 \quad 3(13)=3(10+3)$

## Subtopic 3 Distributive Property Model 2-Digit Numbers



Solve the following products using the Distributive Property as shown.


## Subtopic 4 Distributive Property of Multiplication Over Subtraction

The Distributive Property of Multiplication over $\qquad$ states that multiplying a number and a difference is the same as multiplying the number by each part of the difference and then subtracting, $4(5-2)=$ $\qquad$ .

Use the Distributive Property of Multiplication over Subtraction to find the product.
5(17)
12(25)

## Subtopic 5 Applications of the Distributive Property

Use the Distributive Property to solve the following.
9 Crater Rim Auditorium has fifty-two rows with thirty-three seats in each. How many seats are there altogether?

