Module 1 Number Sense

Lesson 4 Distributive Properties

Notes

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 _____ and then $4(5+2) = (4 \times 5) + (4 \times 2)$.

Solve the following products using the Distributive Property as shown.

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

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

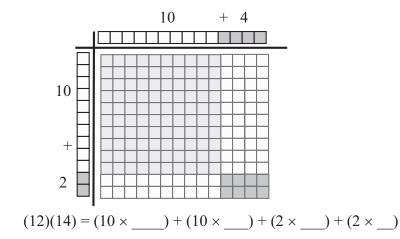
$$2(14) = 2(10 + 4) = (2 \times ___) + (2 \times ___)$$

Solve the following products using the Distributive Property as shown.



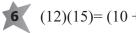
Subtopic 3

Distributive Property Model 2-Digit Numbers



Solve the following products using the Distributive Property as shown.

5
$$(11)(14)=(10+1)(10+4)$$
 6 $(12)(15)=(10+2)(10+5)$



Subtopic 4

Distributive Property of Multiplication Over Subtraction

The Distributive Property of Multiplication over 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) = ______.

Use the Distributive Property of Multiplication over Subtraction to find the product.



Subtopic 5

Applications of the Distributive Property

Use the Distributive Property to solve the following.



Crater Rim Auditorium has fifty-two rows with thirty-three seats in each. How many seats are there altogether?