

Understanding Distributive Property

1. Using the distributive property, find the value of each of the expressions.

$$8 \times (n + 3) \quad \text{if } n = 5$$

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

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

$$0.5 \times (50 + n) \quad \text{if } n = 10$$

$$= (0.5 \times 50) + (0.5 \times \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

$$5 \times (10 + n) \quad \text{if } n = 5$$

$$= (5 \times 10) + (5 \times \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

$$0.5 \times (70 + n) \quad \text{if } n = 15$$

$$= (0.5 \times 70) + (0.5 \times \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

$$3 \times (n + 5) \quad \text{if } n = 0.4$$

$$= (3 \times \underline{\quad}) + (3 \times 5)$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

$$0.2 \times (10 + n) \quad \text{if } n = 3$$

$$= (0.2 \times 10) + (0.2 \times \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

2. Check if the equation $5 \times (n + 13) = 105$ is true where $n = 8$ by using distributive property.

Solution:

3. Using the distributive property, find the sum of the perimeter of the squares below.



Solution:

4. Using the distributive property, find the total area of the figure below.



Solution:

5. True or False

$$\frac{1}{2}(x - y) - 4 = \frac{1}{2}x - \frac{1}{2}y - 4$$

Common Core Sheets Distributive Property

Chao Zhang



Common Core Sheets Distributive Property:

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