

4-1 The Distributive Property

Ex. 1 Use the Distributive Property to write each expression as an equivalent expression. Then evaluate the expression.

$$\begin{array}{l} 4(5+8) \\ 4(13) \\ 52 \end{array} \qquad \begin{array}{l} 4(5+8) \\ 20+32 \\ 52 \end{array}$$

$$\begin{array}{l} (6-9)2 \\ 12-18 = -6 \end{array}$$

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Ex. 2 A community center offers a canoeing day trip. The canoeing fee is \$80 per person. The cost of the food is an additional \$39 per person. Find the total cost for a family of four.

$$80 \cdot 4 + 39 \cdot 4 \quad \left\} \quad (80+39)4$$

$$\$476$$

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Ex. 3 Use the Distributive Property to write each expression as an equivalent algebraic expression.

$$2(x+4) \rightarrow 2x+8$$

$$(y+3)6 \rightarrow 6y+18 \quad 18+6y$$

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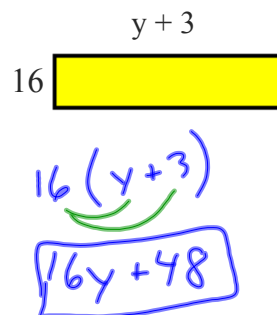
Ex. 4 Use the Distributive Property to write each expression as an equivalent algebraic expression.

$$4(x-2) \rightarrow 4x-8$$

$$-2(n-3) \rightarrow -2n+6$$

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Ex. 5 Find the area of the rectangle.



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Ex. 6 Use the Distributive Property to write each expression as an equivalent algebraic expression.

$$7(p + q - 4)$$

$$7p + 7q - 28$$

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