

Homework Practice

The Distributive Property

Use the Distributive Property to evaluate each expression.

1. $(16 - 6)2$

2. $4(12 + 3)$

3. $-3(-7 + 2)$

4. $(8 + 3)(-1)$

5. $5(7 + 3)$

6. $-2(8 - 5)$

Use the Distributive Property to rewrite each expression.

7. $(2 + g)8$

8. $4(h - 5g)$

9. $-7(5 - n)$

10. $8(2m + 1)$

11. $6x(y - z)$

12. $-3(2b - 2a)$

13. **DINING OUT** The table shows the different prices at a diner.

a. Write two equivalent expressions for the total cost if two customers order each of the items.

Item	Cost (\$)
Sandwich	\$5
Drink	\$2
Dessert	\$3

b. What is the total cost for both customers?

14. **SUNDAES** Carmine bought 5 ice cream sundaes for his friends. If each sundae costs \$4.95, how much did he spend? Justify your answer by using the Distributive Property.

Homework Practice

The Distributive Property

Use the Distributive Property to evaluate each expression.

1. $(16 - 6)2$

20

2. $4(12 + 3)$

60

3. $-3(-7 + 2)$

15

4. $(8 + 3)(-1)$

-11

5. $5(7 + 3)$

50

6. $-2(8 - 5)$

-6

Use the Distributive Property to rewrite each expression.

7. $(2 + g)8$

$16 + 8g$

8. $4(h - 5g)$

$4h - 20g$

9. $-7(5 - n)$

$-35 + 7n$

10. $8(2m + 1)$

$16m + 8$

11. $6x(y - z)$

$6xy - 6xz$

12. $-3(2b - 2a)$

$-6b + 6a$

13. **DINING OUT** The table shows the different prices at a diner.

- a. Write two equivalent expressions for the total cost if two customers order each of the items.

$$2(\$5 + \$2 + \$3), 2 \cdot \$5 + 2 \cdot \$2 + 2 \cdot \$3$$

- b. What is the total cost for both customers? **\$20**

Item	Cost (\$)
Sandwich	\$5
Drink	\$2
Dessert	\$3

14. **SUNDAES** Carmine bought 5 ice cream sundaes for his friends. If each sundae costs \$4.95, how much did he spend? Justify your answer by using the Distributive Property.

$$\mathbf{\$24.75; 5(\$5 - \$0.05) = 5 \cdot \$5 - 5 \cdot \$0.05 = \$25 - \$0.25}$$