NAME _____ DATE _____ PERIOD _____

Lesson 1 Homework Practice

The Distributive Property

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

1. $6(80 + 1)$ **2.** $7(70 - 4)$ **3.** $(300 + 6)\frac{2}{3}$ **4.** $(100 + 10)9$

5. $\frac{1}{5}(400 - 90)$ **6.** $-8(700 - 3)$ **7.** $4(20 - 9)$ **8.** $(100 - 3)(-7)$

9. $-1(75 - 9)$ **10.** $14(21 - 11)$ **11.** $-25(80 + 2)$ **12.** $31(450 - 18)$

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

13. $7(y + 11)$ **14.** $-6(t - 1)$ **15.** $-8(u - 2)$ **16.** $(r + 9)(-4)$

17. $-1(-h + 5)$ **18.** $-2(f + 3)$ **19.** $-4(b - 1)$ **20.** $1(7 - v)$

21. $-2(d - 5)$ **22.** $\frac{2}{5}(n + 10)$ **23.** $-50(z - 1)$ **24.** $-12(g + 12)$

25. $17(p + 4)$ **26.** $(k - 21)(-8)$ **27.** $(s - 32)(-9)$ **28.** $-28(a - 5)$

29. $-20(19 - a)$ **30.** $3.3(d + 4)$ **31.** $-18(-q - 5)$ **32.** $-16(c + 45)$

33. $-19(v - 1)$ **34.** $-1(r + 27)$ **35.** $5.3(x + 11)$ **36.** $-17(-n + 1)$

37. A planter weighs 2 pounds and holds 3 pounds of soil. Write two equivalent expressions for the total weight of nine planters. Then find the weight.

38. A uniform costs $42 for the sweater and $29 for the slacks. Write two equivalent expressions for the total cost of six uniforms. Then find the cost.

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Lesson 1 Homework Practice

The Distributive Property

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

1. $6(80 + 1)$
$6 \cdot 80 + 6 \cdot 1$; 486

2. $7(70 - 4)$
$7 \cdot 70 - 7 \cdot 4$; 462

3. $(300 + 6)\frac{2}{3}$
$300 \cdot \frac{2}{3} + 6 \cdot \frac{2}{3}$; 204

4. $(100 + 10)9$
$100 \cdot 9 + 10 \cdot 9$; 990

5. $\frac{1}{5}(400 - 90)$
$\frac{1}{5} \cdot 400 - \frac{1}{5} \cdot 90$; 62

6. $-8(700 - 3)$
$-8 \cdot 700 - (-8)(3)$; -5576

7. $4(20 - 9)$
$4 \cdot 20 - 4 \cdot 9$; 44

8. $(100 - 3)(-7)$
$100(-7) - 3(-7)$; -679

9. $-1(75 - 9)$
$-1 \cdot 75 - (-1)9$; -66

10. $14(21 - 11)$
$14 \cdot 21 - 14 \cdot 11$; 140

11. $-25(80 + 2)$
$-25 \cdot 80 + (-25)2$; -2050

12. $31(450 - 18)$
$31 \cdot 450 - 31 \cdot 18$; 13,392

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

13. $7(y + 11)$
$7y + 77$

14. $-6(t - 1)$
$-6t + 6$

15. $-8(u - 2)$
$-8u + 16$

16. $(r + 9)(-4)$
$-4r - 36$

17. $-1(-h + 5)$
$h - 5$

18. $-2(f + 3)$
$-2f - 6$

19. $-4(b - 1)$
$-4b + 4$

20. $1(7 - v)$
$7 - v$

21. $-2(d - 5)$
$-2d + 10$

22. $\frac{2}{5}(n + 10)$
$\frac{2}{5}n + 4$

23. $-50(z - 1)$
$-50z + 50$

24. $-12(g + 12)$
$-12g - 144$

25. $17(p + 4)$
$17p + 68$

26. $(k - 21)(-8)$
$-8k + 168$

27. $(s - 32)(-9)$
$-9s + 288$

28. $-28(a - 5)$
$-28a + 140$

29. $-20(19 - a)$
$-380 + 20a$

30. $3.3(d + 4)$
$3.3d + 13.2$

31. $-18(-q - 5)$
$18q + 90$

32. $-16(c + 45)$
$-16c - 720$

33. $-19(v - 1)$
$-19v + 19$

34. $-1(r + 27)$
$-r - 27$

35. $5.3(x + 11)$
$5.3x + 58.3$

36. $-17(-n + 1)$
$17n - 17$

37. A planter weighs 2 pounds and holds 3 pounds of soil. Write two equivalent expressions for the total weight of nine planters. Then find the weight.
$9(2 + 3)$, $9(2) + 9(3)$; 45 pounds

38. A uniform costs \$42 for the sweater and \$29 for the slacks. Write two equivalent expressions for the total cost of six uniforms. Then find the cost.
$6(42 + 29)$, $6(42) + 6(29)$; \$426

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