HW 3-3
Distributive Property

Int 1   **& Simplifying Like Terms**   **Unit 3**

Use the Distributive Property to rewrite each expression.

A. $(2+g)8$

D. $\dfrac{1}{2}(2m+1)$

F. $-3.6(2b-3a)$

B. $4(h-5g)$

E. $6x(y-z)$

G. $-(8m+3n)$

C. $-7(5-n)$

H. $\dfrac{3}{8}(24n-32)$

Simplify each expression using the Distributive Property. Show your work.

1. $5(x+6)$

5. $\dfrac{4}{7}(21w-14r)$

8. $-8(y+2z)$

2. $3(4g+6h)$

6. $10.4(7a-6b)$

9. $-6(3f+1)$

3. $2(5r+3)$

7. $-\dfrac{1}{3}(2y+6)$

10. $-6.8(8w-4)$

4. $8k(3m-6)$

11. $-2y(p-6)$

12. $-(3c-d)$

19. $(-15+b)\dfrac{2}{5}$

26. $(6+d)(-6)$

13. $\dfrac{3}{4}(8h+4)$

20. $-(18r-11)$

27. $(4c+2d)(-2)$

14. $-2(3t-6)$

21. $-2(3f-5g)$

28. $5+2(3a+6)$

15. $5c(a-b)$

22. $-5(4+x)$

29. $2(x+y)+7y$

16. $-7(2x+9y)$

23. $(5+v)(-5)$

30. $-4.8(3s+t)+3t$

17. $-9(2+3y)$

24. $(w-2)4$

31. $10-3(h+5)$

18. $4.7(3m+7n)$

25. $-7x(8n-m)$

32. $\dfrac{4}{15}(3y+5)-\dfrac{2}{5}y$

33. $-2(u-w)+6$

34. $-(4-2y)+16$

35. **TRAIN RIDE**   Mr. and Mrs. Caputo are taking their family into the city on the train. The cost per person is $5.80. If there are 4 members in their family, how much does the train trip cost? Justify you answers using the Distributive Property.

36. **CAMPING**   Chantee went camping over the weekend. The cost for the site was $16.90 a night for three nights. How much did it cost her to camp? Justify your answer by using the Distributive Property.

Multiple Choice

37. Simplify: $2(x+10)$

  A. $20x$ B. $2x+10$ C. $2x+20$ D. $12x$

38. Simplify: $-20(z-5)$

  A. $20z-5$ B. $-20z-5$ C. $20z+100$ D. $-20z+100$