Unit 4 Objective 3 Remediation

Use Distributive Property to combine like terms

No calculators allowed!!!!!

Like terms- terms that have the same variable with the same exponent.

Example 1:

$$3x(-5x-1) = 3x \cdot (-5x) - 3x(1)$$

$$= \mathbf{-15x^2 - 3x}$$

Example 2:

Rewrite the expression using the Distributive Property.

$14f - 28 = ?$ divide each term by 14

to work backwards

$$= \mathbf{14(f-2)}$$

Use the Distributive Property to rewrite each expression.

1. $9xy - 21xyz$ _____

2. $rs + rq$ _____

3. $xy - wy$_____

4. $4pq + pr$_____

5. $3de - 15df$_____

6. $35st + 20rs$_____

Simplify the following expressions.

7. $3(3x-2)$

8. $2y(4y-2)$

9. $-3(3-2c)$

10. $2(1-d)$

11. $3(7r+2s)$

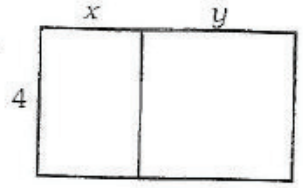
12. $6(9k+2j)$

What Is the World's Longest Punctuation Mark?

For each exercise, write the letter of the answer in the box containing the exercise number.

In Exercises 1-2, circle the expression that does *not* represent the area of the outside (largest) rectangle. Write its letter in the corresponding numbered box.

1.

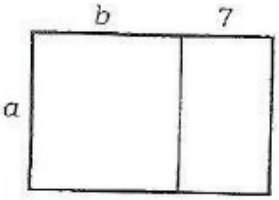


S. $4(x + y)$

K. $4x + 4y$

T. $4 + xy$

2.



H. $ab + 7$

R. $a(b + 7)$

A. $ab + 7a$

In Exercises 3-22, use the distributive property to complete each statement.

3. $9(a + b) = 9a +$ ____

4. $3(n + 7) =$ ____ $+ 21$

5. $2(15 + q) =$ ____ $+ 2q$

6. $a(b + 8) = ab +$ ____

7. $x(x + 5) =$ ____ $+ 5x$

8. $16(y + 3) = 16y +$ ____

9. $e(s + t) = es +$ ____

10. $7(p + q + 4) = 7p + 7q +$ ____

11. $a(b + c + 11) =$ ____ $+ ac + 11a$

12. $k(8 + 3 + k) = 8k + 3k +$ ____

13. $7x + 7y = 7(x +$ ____ $)$

14. $3m + 3n = 3($ ____ $+ n)$

15. $8a + 8b =$ ____ $(a + b)$

16. $ax + ay =$ ____ $(x + y)$

17. $nt + 4n = n(t +$ ____ $)$

18. $2d + 12 = 2($ ____ $+ 6)$

19. $5e + 35 = 5(e +$ ____ $)$

20. $x^2 + 9x = x($ ____ $+ 9)$

21. $4p + 4q + 80 = 4(p + q +$ ____ $)$

22. $kw + wy + w^2 = w(k + y +$ ____ $)$