Figure 1.18

Sample Assessment Questions for End-of-Unit Test on Expressions (Lower-Level Cognitive Demand Only)

Name: _____ **Date:** _____ **Period:** _____

Grade 7 Unit 2 Sample Assessment

Noncalculator

Use the distributive property to simplify the expressions.

1. $4[10 - (1 + 7)]$
2. $-2/5\ (x + 25)$
3. $11(s + 9)$
4. $-21(x - 7)$
5. $24y - 6(8 - 4y) + 52$
6. $(4m + 9) - 3(2m - 5)$

Simplify each expression.

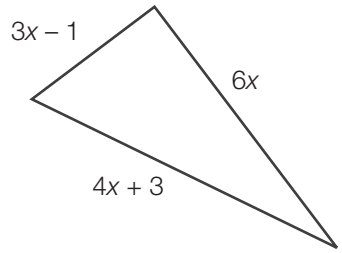
7. $6y + (-13y)$
8. Subtract x from $3x - 1$.
9. $4d - 5 - 9d + 17$
10. $27 - 13x + 32 - 2x + 10x$
11. $-4(5x + 7) - 3x + 13$
12. $7x^2 + 7y + 4x^2 - 4y$

Evaluate the expression when $x = 2$.

13. $15 + 3x + 10 + 8x$

14. Kirsten and her friends are going to the movies. Each person buys a ticket for $8, a medium drink for $2.75, and a large popcorn for $4.25.
    a. Write an expression in simplest form that represents the amount of money each person spends at the movies. Use x to represent the total amount of people in the group.

15. Write and simplify an expression for the perimeter of the figure.



Solve each equation.

16. $x + 5 = -7$

17. $-10 = z - 12$

18. $0 + (-21) = b$

19. $f + (-8) = 6$

20. $a + 5 + 8 = 20$

21. $-4n = -8$

22. $\frac{1}{3}x = 6$

23. $16 = -2x$

24. $3(x - 2) = -12$

25. $13.49 = -8.56 + y$

26. $30.2b = -75.5$

27. $\frac{x}{-2.1} = -7.5$

Choose the letter of the term that best matches each statement.

a. Terms
b. Coefficient
c. Constant term
d. Like terms
e. Equation

_____ 28. Terms that have identical variable parts

_____ 29. The parts of an expression that are added together

_____ 30. This type of term has a number but no variable.

_____ 31. The number part of the term