

## Puzzle 2-1

## Evaluating and Writing Algebraic Expressions

Write an algebraic expression to reflect each description. Write the letter of the correct answer above the exercise number at the bottom of the page.

- |   |             |
|---|-------------|
| 1. Seven more than $b$ bananas              | r. $q - 5$  |
| 2. Four times $c$ cookies                   | a. $2a - 3$ |
| 3. Five less than your quiz score $q$       | a. $c - 4$  |
| 4. Two more than three times your age $a$   | l. $4d$     |
| 5. Four less than $c$ cups                  | a. $b + 7$  |
| 6. Five times the number of questions $q$   | i. $d + 4$  |
| 7. Three less than two times your age $a$   | b. $3a + 2$ |
| 8. Four miles farther than the distance $d$ | v. $4c$     |
| 9. A hole four times deeper than $d$        | e. $5q$     |

What did you use in each of your expressions?

\_\_\_\_\_

5      2      1      3      8      7      4      9      6

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## Puzzle 2-2

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## Simplifying Expressions

Match the expressions in the left column with their simplified versions in the right column. One from each column will have no match. Circle them.

- |                                  |                |
|----------------------------------|----------------|
| 1. $3x + 9 - 8x + 5$             | a. $8x + 70$   |
| 2. $\frac{1}{2}(4x + 10) - 3x$   | b. $12x - 8$   |
| 3. $5.8x - 10.4 + 6.2x + 2.4$    | c. $-17x + 27$ |
| 4. $-14 + 7(2x + 3)$             | d. $-x + 5$    |
| 5. $\frac{2}{3}(9x - 15) + 8$    | e. $-14x + 7$  |
| 6. $3.9(2x + 18) + 0.2x - 0.2$   | f. $-7x + 8$   |
| 7. $-\frac{3}{4}(24 + 16x) + 3x$ | g. $-5x + 14$  |
| 8. $-14x + 3(-x + 6) + 9$        | h. $-9x - 64$  |
| 9. $-7(x + 11) + 13 - 2x$        | i. $6x - 2$    |
| 10. $1.8(3 - 2x) + 2.6 - 3.4x$   | j. $-18 - 9x$  |

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