

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Why did the cranberries turn red?

Simplify each expression by combining like terms. Circle your final answer.

1.  $9x + 3 - 7x + 4$

2.  $13z + 6y + 8x + 19 - y$

3.  $21x + 8 - 12x - 7 + 3y - y$

4.  $3x + y - x + 7y$

5.  $18x - 3y + x - 1 + 9y$

6.  $5x + 18 + 13y + 12x + 8y$

7.  $25x - x + 2y$

8.  $4x - 7 + 3x + 8 - 3x$

9.  $13x + 18x - 20x$

10.  $12x + 5 + 3x - 5$

11.  $5x - 3x + 2x^2 + 31x + 18x^2$

12.  $5 + x + x^2 + 2x - 1$

13.  $4x + 4x - x - x$

14.  $6x + 3x^2 - x - x^2$

15.  $10x^2 + 2x^2 - 4x^2 - 7$

16.  $3 + 4x^2 - 3x^2 - 3 - x^2 + 5x - 5x$

17.  $4x + 3 + x^2 - x$

18.  $18x^2 - 6x + 7x + 26x^2 - x$

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Find the simplified expression that matches each problem in the table below. Write the letter that matches the simplified form in the line above each problem number.

| Simplified Expression | Letter |
|-----------------------|--------|
| $15x$                 | H      |
| $4x + 1$              | B      |
| $17x + 21y + 18$      | C      |
| $19x + 11y - 1$       | J      |
| $11x$                 | E      |
| $x^2 + 3x + 4$        | A      |
| $6x$                  | G      |
| $20x^2 + 33x$         | D      |
| $2x + 7$              | I      |
| $4x - 15$             | F      |
| $0$                   | E      |
| $3x^2 + 6x$           | K      |

| Simplified Expression | Letter |
|-----------------------|--------|
| $9x + 2y + 1$         | W      |
| $19x + 6y - 1$        | N      |
| $2x + 8y$             | R      |
| $51x$                 | M      |
| $2x^2 + 5x$           | S      |
| $8x^2 - 7$            | K      |
| $44x^2$               | U      |
| $8x + 5y + 13z + 19$  | S      |
| $24x + 2y$            | Y      |
| $8x$                  | L      |
| $x^2 + 3x + 3$        | T      |
| $8x + 6y + 13z$       | O      |

\_\_\_\_\_

8    9    6    12    18    14    16

\_\_\_\_\_

17    10    16    7

\_\_\_\_\_

14    12    3

\_\_\_\_\_

17    10    9

\_\_\_\_\_

17    18    4    15    16    7

\_\_\_\_\_

11    4    9    2    2    1    5    13