

# Who Won The Race Between The Boy Silkworm And The Girl Silkworm?

SIMPLIFY any expression below. Then EVALUATE the result for the given value(s) of the variables. Find the simplified expression in the answer column. Notice the letter next to it. Find the value of the expression at the bottom of the page and write this letter above it. Keep working and you will discover the answer to the title question.

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|--|------------------|
| ① $7x + 3 - 2x$ if $x = 8$                       | ① $3x + 2y - 8$  |
| ② $10 - 3y - 7$ if $y = 3$                       | ⑤ $-9y - 2$      |
| ③ $-3x + 8x - 4$ if $x = -2$                     | ① $5x + 3$       |
| ④ $7 - (-2y) + y - 9$ if $y = 6$                 | ④ $-x - 3y$      |
| ⑤ $5x + (-8x) + 3 - x$ if $x = -5$               | ④ $-x + 8y + 8$  |
| ⑥ $4y - 4 - (-y) - 9y$ if $y = 4$                | ④ $-2x + 5$      |
| ⑦ $-x + 8 + 7x - (-1)$ if $x = -10$              | ④ $-4x + 3$      |
| ⑧ $-2 + (-6y) + 5y - 8y$ if $y = -4$             | ④ $-3y + 3$      |
| ⑨ $4x + 5 - 5x$ if $x = -12$                     | ④ $-7x + y + 7$  |
| ⑩ $4x + 2y - x - 8$ if $x = 1, y = 5$            | ④ $4x - y + 10$  |
| ⑪ $-3x + 9 - (-4y) + 5x$ if $x = 1, y = -5$      | ④ $2x + 4y + 9$  |
| ⑫ $-8 - 4x + y - 6x$ if $x = -3, y = 8$          | ④ $6x + 9$       |
| ⑬ $2x + 5y - 3x + (-8y)$ if $x = -9, y = 9$      | ④ $3y - 2$       |
| ⑭ $7x + 1 - y - 3x - (-9)$ if $x = 7, y = -6$    | ④ $5x - 4$       |
| ⑮ $5x + (-y) + 8 - 6x + 9y$ if $x = 4, y = -2$   | ④ $-10x + y - 8$ |
| ⑯ $7 - x + 4y - 6x - 3y$ if $x = -1, y = 8$      | ④ $-x + 5$       |
| ⑰ $-x - (-y) + (-x) - y + 5$ if $x = -3, y = -6$ | ④ $-4y - 4$      |

-6	17	16	-18	23	22	-14	34	-9	-51	30	43	-12	-20	11	5	44	



# What Do You Call Two Railroad Trains After a Head-on Collision?

First, SIMPLIFY each expression below. Then EVALUATE the expression if

$$a = 3, b = -2, \text{ and } c = -6$$

Find the simplified expression in the answer column and notice the letter next to it. Find the value of the expression at the bottom of the page and write this letter above it.

- |  |   |
|--|---|
| <p>① <math>9a + 3 - 2a</math></p> <p>② <math>8 - 5b - 1</math></p> <p>③ <math>-4b - 6 + 20b - 3</math></p> <p>④ <math>2 - (-8c) + 24 - 7c</math></p> <p>⑤ <math>5a - 9b + a - 6b</math></p> <p>⑥ <math>3b + 11c - 4b - c</math></p> <p>⑦ <math>9a - 1 + 8c - 8a + c</math></p> <p>⑧ <math>12c + 5a + 7 + (-13c) + 4a</math></p> <p>⑨ <math>-15 - 6c + 3b - 6c + 9 - 2b</math></p> <p>⑩ <math>3a + 7b + 2c - a - 4b</math></p> <p>⑪ <math>-8a - b - (-6c) - 2a - b - 5c</math></p> <p>⑫ <math>b - 4c + 3a - c - 9b - 4a</math></p> <p>⑬ <math>-3c + 7a + 5 + 17b + 2c + b + (-7a)</math></p> <p>⑭ <math>2 - a - (-b) + c + (-a) - b - (-c)</math></p> | <p>ⓑ <math>16b - 3c + 5</math></p> <p>ⓓ <math>c + 26</math></p> <p>ⓔ <math>7a + 3</math></p> <p>ⓓ <math>18b - c + 5</math></p> <p>ⓓ <math>b - 12c - 6</math></p> <p>ⓐ <math>-5b + 7</math></p> <p>ⓐ <math>-b + 10c</math></p> <p>ⓓ <math>16b - 9</math></p> <p>ⓔ <math>9a - c + 7</math></p> <p>Ⓚ <math>-a - 8b - 5c</math></p> <p>ⓓ <math>-2a + 2c + 2</math></p> <p>ⓔ <math>6a - 15b</math></p> <p>ⓓ <math>b - 10c + 6</math></p> <p>ⓐ <math>2a + 3b + 2c</math></p> <p>ⓓ <math>a + 9c - 1</math></p> <p>ⓓ <math>-a - 10b - 8c</math></p> <p>ⓐ <math>-10a - 2b + c</math></p> |
|--|---|

-58	-41	-16	24	-12	43	48	-52	64	17	-25	-32	20	40