

## Simplifying expressions

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### Grade 5 Pre-Algebra Worksheet

A. Rewrite each expression and then evaluate it for  $x = 2$ .

1.  $5x - 3x$  \_\_\_\_\_

6.  $6x - 3x + 8$  \_\_\_\_\_

2.  $8x - 3x - 7$  \_\_\_\_\_

7.  $12x - 7x - 8$  \_\_\_\_\_

3.  $7x - 4x + 29$  \_\_\_\_\_

8.  $3x + 9 + 4x - 5$  \_\_\_\_\_

4.  $8 + 6x - 5 + 4x - 3x$  \_\_\_\_\_

9.  $3x + 7x - 6x + 19 - 8$  \_\_\_\_\_

5.  $2x + 7 + 3x - 2 + 3$  \_\_\_\_\_

10.  $16x - 4x - 7x + 13 - 11$  \_\_\_\_\_

B. Rewrite each expression and then evaluate it for  $y = 4$ .

1.  $11y - 7y$  \_\_\_\_\_

6.  $8y - 2y + 11$  \_\_\_\_\_

2.  $9y + 3 - 5y + 4$  \_\_\_\_\_

7.  $2y + 9 + 8y - 5$  \_\_\_\_\_

3.  $26 + 5y - 2y$  \_\_\_\_\_

8.  $8y + 3y - 5y + 12 - 5$  \_\_\_\_\_

4.  $9 + 3y - 2 + 8y - 2y$  \_\_\_\_\_

9.  $7 + 4y - 3 + 9y - 3y$  \_\_\_\_\_

5.  $6y + 5 - 3y - 2 + 3$  \_\_\_\_\_

10.  $16y - 3y + 7 - 8y - 1$  \_\_\_\_\_

## Answers

A. Rewrite each expression and then evaluate it for  $x = 2$ .

$$1. 5x - 3x = \underline{2x = 4}$$

$$6. 6x - 3x + 8 = \underline{3x + 8 = 14}$$

$$2. 8x - 3x - 7 = \underline{5x - 7 = 3}$$

$$7. 12x - 7x - 8 = \underline{5x - 8 = 2}$$

$$3. 7x - 4x + 29 = \underline{3x + 29 = 35}$$

$$8. 3x + 9 + 4x - 5 = \underline{7x + 4 = 18}$$

$$4. 8 + 6x - 5 + 4x - 3x = \underline{7x + 3 = 17}$$

$$9. 3x + 7x - 6x + 19 - 8 = \underline{4x + 11 = 19}$$

$$5. 2x + 7 + 3x - 2 + 3 = \underline{5x + 8 = 18}$$

$$10. 16x - 4x - 7x + 13 - 11 = \underline{5x + 2 = 12}$$

B. Rewrite each expression and then evaluate it for  $y = 4$ .

$$1. 11y - 7y = \underline{4y = 16}$$

$$6. 8y - 2y + 11 = \underline{6y + 11 = 35}$$

$$2. 9y + 3 - 5y + 4 = \underline{4y + 7 = 23}$$

$$7. 2y + 9 + 8y - 5 = \underline{10y + 4 = 44}$$

$$3. 26 + 5y - 2y = \underline{3y + 26 = 38}$$

$$8. 8y + 3y - 5y + 12 - 5 = \underline{6y + 7 = 31}$$

$$4. 9 + 3y - 2 + 8y - 2y = \underline{9y + 7 = 43}$$

$$9. 7 + 4y - 3 + 9y - 3y = \underline{10y + 4 = 44}$$

$$5. 6y + 5 - 3y - 2 + 3 = \underline{3y + 6 = 18}$$

$$10. 16y - 3y + 7 - 8y - 1 = \underline{5y + 6 = 26}$$