

Name: \_\_\_\_\_

# Writing Basic Algebraic Expressions

operation	example written numerically	example with a variable
addition (sum)	$3 + 2$	$6 + x$
subtraction (difference)	$18 - 6$	$14 - a$
multiplication (product)	$4 \times 5$	$9c$
division (quotient)	$16 \div 4$	$\frac{18}{z}$



Rewrite each question as an algebraic expression.

1. What is the sum of  $a$  and 8? \_\_\_\_\_
2. What is the product of  $y$  and 10? \_\_\_\_\_

3. W
- SU
4. W
5. W



## ~ PREVIEW ~

Please log in or register to download the printable version of this worksheet.

Rewrite each phrase as an algebraic expression.

6.  $c$  multiplied by 5 \_\_\_\_\_
7. 10 larger than  $y$  \_\_\_\_\_
8. 9 less than  $e$  \_\_\_\_\_
9. triple  $r$  \_\_\_\_\_
10.  $p$  divided by 4 \_\_\_\_\_
11. quadruple  $f$  \_\_\_\_\_

Write your answer to the word problems in the form of an algebraic expression.

12. There are  $x$  students trying out for a solo in a chorus concert. Only 6 will be chosen. How many students will not be chosen? \_\_\_\_\_
13. There are  $y$  students who volunteered to pull weeds in the school garden. The principal said she wishes she had three times as many volunteers. How many volunteers would the principal like to have? \_\_\_\_\_

## ANSWER KEY

# Writing Basic Algebraic Expressions

operation	example written numerically	example with a variable
addition (sum)	$3 + 2$	$6 + x$
subtraction (difference)	$18 - 6$	$14 - a$
multiplication (product)	$4 \times 5$	$9c$
division (quotient)	$16 \div 4$	$\frac{18}{z}$



Rewrite each question as an algebraic expression.

1. What is the sum of  $a$  and 8?  **$a + 8$**
2. What is the product of  $y$  and 10?  **$10y$**

3. W  
SU

4. W

5. W



## ~ PREVIEW ~

Please log in or register to download the printable version of this worksheet.

Rewrite each phrase as an algebraic expression.

6.  $c$  multiplied by 5  **$5c$**
7. 10 larger than  $y$   **$10 + y$**
8. 9 less than  $e$   **$e - 9$**
9. triple  $r$   **$3r$**
10. half of  $p$   **$\frac{p}{2}$**
11. quadruple  $f$   **$4f$**

Write your answer to the word problems in the form of an algebraic expression.

12. There are  $x$  students trying out for a solo in a chorus concert. Only 6 will be chosen. How many students will not be chosen?  **$x - 6$**
13. There are  $y$  students who volunteered to pull weeds in the school garden. The principal said she wishes she had three times as many volunteers. How many volunteers would the principal like to have?  **$3y$**