Name _____   Score: _____

Writing Basic Algebraic Expressions

Evaluate each expression.

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

Rewrite each question as an algebraic expression.

1. What is the sum of a and 9? _____

2. What is the product of y and 4? _____

3. What do you get when you subtract 7 from b? _____

4. What is c divided by 4? _____

5. What is 6 decreased by p? _____

Rewrite each phrase as an algebraic expression.

6. c multiplied by 8 _____   **7.** 10 larger than y _____

8. 11 less than e _____   **9.** triple r _____

10. p divided by 7 _____   **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 5 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? _____

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Rewrite each question as an algebraic expression.

1. What is the sum of a and 9?   <u>a + 9</u>

2. What is the product of y and 4?   <u>4y</u>

3. What do you get when you subtract 7 from b?   <u>b - 7</u>

4. What is c divided by 4? $\dfrac{c}{4}$

5. What is 6 decreased by p?   <u>6 – p</u>

Rewrite each phrase as an algebraic expression.

6. c multiplied by 8   <u>c8</u>

7. 10 larger than y <u>10 + y</u>

8. 11 less than e <u>e - 11</u>

9. triple r <u>3r</u>

10. p divided by 7 $\dfrac{p}{7}$

11. quadruple f <u>4f</u>

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