

Name: _____

Unit 1: Study Guide 2: Writing and Understanding Simple Expressions

MCC5.OA.2 Write Simple Expressions that record calculations with numbers, and interpret numerical expression without evaluating them. For example, express the calculation “add 8 and 7, then multiply by 2” as $2 \times (8 + 7)$. Recognize that $3 \times (18,932 + 921)$ is three times as large as $18932 + 921$, without having to calculate the indicated sum or product.

1. Choose the correct numerical expression for: Subtract 8 from 9, then multiply by 5. A. $8 - 9 \times 5$ C. $(9 - 8) \times 5$ B. $9 - 8 \times 5$ D. $(8 - 9) \times 5$	2. Choose the correct numerical expression for: Multiply 8 and 2, then add 36. A. $8 \times (2 + 36)$ C. $8 \times 2 + 36$ B. $8 + 2 \times 36$ D. $8 \times 2 \times 36$
3. Write the correct numerical expression for: Multiply 5 times 9, then add 12 divided by 6	4. Which choice below describes the following expression verbally? $42 \div 6 \times 9$ A. Divide 42 by 6, then multiply by 9 B. Multiply 6 by 9, then divide by 42 C. Multiply 6×9 , then divide 42 by 6 D. Divide 6 by 42, then multiply 6 by 9
5. Write a numerical expression and a word expression for the problem written below. Darth Vader knows that each of his 20 storm trooper bodyguards has 2 light sabers, plus he has 13 extra light sabers on his spacecraft. Numerical Expression: _____ Word Expression: _____	
6. Write a numerical expression and a word expression for the problem written below. Big Bird has 12 fake yellow feathers and 24 fake red feathers. He divides all of his fake feathers up evenly between his 9 friends. Numerical Expression: _____ Word Expression: _____	
7. Write the following expression in word form. $12 \times (6 + 15)$ _____ _____ _____ _____	8. Write the following expression in word form. $8 \times 3 + 10 \div 5$ _____ _____ _____ _____

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9. How would the value of the expression below change if it were multiplied by 9 instead of being multiplied by 3?

$$3 \times (942 + 3,403)$$

10. How would the value of the expression below change if it were divided by 6 instead of by 2?

$$(43,432 - 827) \div 2$$

- A. The value would stay the same.
- B. The quotient would be 3 times smaller, because 6 is three times larger than 2.
- C. The quotient would be 3 times larger because 6 is three times larger than 2.
- D. The quotient would be 2 times smaller, because 6 is two times larger than 2.

11. Which expression has the least value?

- A. $6 \times (845 + 683)$
- B. $9 \times (845 + 683)$
- C. $8 \times (845 + 683)$
- D. $845 + 683$

12. Which expression has the greatest value?

- A. $(414 \times 39) \times 27$
- B. $(414 \times 39) \times 21$
- C. $25 \times (414 \times 39)$
- D. $28 \times (414 \times 39)$

13. Fill in the blank to make the following equation 9 times larger than it currently is.

$$\underline{\hspace{1cm}} \times \{8 \times [(2 \times 6) + (479 \times 5)]\}$$

14. Ms. Tennes put 25 red pencils and 30 blue pencils into a box. The expression

$$“25 \text{ pencils} + 30 \text{ pencils}”$$

describes the number of pencils in the box. Write an expression that would show the number of pencils in 46 identical boxes.

15. Santa Claus went to North Pole Mart and bought some presents. He paid with a \$50 bill. Below is an expression showing how much the items cost and how much change he should receive.

$$\$50 - [(\$2.50 \times 9) + (\$4 \times 3) + (\$10 \times 1)]$$

How many items did Santa Claus buy that cost \$2.50?