 Name: Key _____ Date: _____ Period: _____

Chapter 2.1 Using the Language of Algebra Practice

Translate from algebraic notation to words.

1. $25 - 7$

The difference of 25 and 7

7 less than 25

2. $28 \div 4$

The quotient of 28 and 4

3. $4(8)$

Product of 4 and 8

4. $x + 13$

The sum of a number and thirteen

5. $15 < 19$

fifteen is less than 19

6. $43 > 25$

43 is greater than 25

7. $3x = 27$

Three times a number is 27

8. $2 \leq 18 \div 6$

2 is less than or equal to The quotient of 18 and 6

 Name: key _____ Date: _____ Period: _____

Chapter 2.1 Using the Language of Algebra Practice

Determine if each is an expression or equation.

9. $9 \cdot 7 = 63$

Equation

10. $9x + 9$

expression

11. $H - 8 = 14$

equation

Write in exponential form.

12. $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

8^6

13. $x \cdot x \cdot x \cdot x \cdot x$

x^5

Write in expanded form.

14. 5^3

$5 \cdot 5 \cdot 5$

15. 10^7

$10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10$

Simplify.

16. $2^3 - 12 \div (10 - 6)$

$8 - 12 \div (4)$

$8 - 3$

(5)

17. $2 + 8(8 - 1)$

$2 + 8(7)$

$2 + 56$

(58)

18. $2 \cdot 36/6$

$2 \cdot 6$

(12)

19. $(6 + 10) \div (3 + 1)$

$16 \div 4$

(4)

 Name: Key Date: _____ Period: _____

Chapter 2.1 Using the Language of Algebra Practice

Simplify.

20. $20 \div (4 + 6) \cdot 9$

$20 \div (10) \cdot 9$

$2 \cdot 9$

18

21. $(3 + 7)^2$

$(10)^2$

100

22. $2[1 + 3(10 - 2)]$

$2[1 + 3(8)]$

$2[1 + 24]$

$2(25)$

50

23. $5[2 + 4(6 - 5)]$

$5[2 + 4(1)]$

$5[2 + 4]$

$5(6)$

30

24. Explain the difference between an expression and an equation.

Answers Vary

Expressions don't have equal signs

Equations do have equal signs

25. Why is it important to use the order of operations to simplify an expression?

Answers vary