

Geometry Readiness Practice 1

... Simplifying

... Evaluating

UNIT A Foundations for Algebra

Be able to:

- Simplify an expression using: the order of operations, the distributive property, and/ or adding like terms.
- Recognize that a negative sign in front of parentheses changes the sign of all the terms within
- Identify the subsets of the real number system
- Evaluate algebraic expressions for given values of its variables

Simplify

1) $-(-2-c)$

2) $8(14+10) \div (8-2)$

3) $5(x-3) - 2x$

4) $2m^2 - 3mz + 7mz - m^2 + 2$

5) $5 + 2(4)^2 \div 8 + 1$

6) $3x + 2y - 5y + 10x$

7) $2(x-1) - 3(4x+5)$

8) $8(5+30 \div 5)$

9) $40 \div 5(2)$

10) $-4(3x-1)$

11) $50 \div (5 \times 5)$

12) $a^2 + 12ab - 3a^2 - 5ab$

13) $4 - 2(x+7)$

14) $36^{1/2}$

15) $(-11)^2$

Evaluate

16) $x + 3y^2$ for $x = -7$ and $y = 2$

17) $xy + z$ for $x = -4$, $y = 3$, and $z = -3$

18) $b - 2a - c$ for $a = -6$, $b = 6$, and $c = -5$

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Answers

ANSWERS for Unit A			
1) $2 + c$	6) $13x - 3y$	11) 2	15) 121
2) 32	7) $-10x - 17$	12) $-2a^2 + 7ab$	16) 5
3) $3x - 15$	8) 88	13) $-2x - 10$	17) -15
4) $m^2 + 4mz + 2$	9) 16	14) 6	18) 23
5) 10	10) $-12x + 4$		