Algebra 1

Name KEY ID: 1

NAQ.a

NO CALC

Date _____ Period ____

NAQ.a.1

Evaluate numeric expressions demonstrating the ability to add, subtract, multiply, and divide positive and negative integers.

#* **Clearly show work.** **Circle your answer.**

1) $6 + (-8)$

$= (-2)$

ALWAYS SHOW WORK! GOING DOWN.

2) $(-6) - (-2)$

$= -6 + 2$ ← Show this step

$= (-4)$

3) $-12 + 15$

$= (3)$

You must include "=" signs!

4) $(-5) + (-3)$

$= (-8)$

5) $4 \cdot -9$

$= (-36)$

6) $-3 \cdot -9$

$= (27)$

7) $(-2)(2)$

$= (-4)$

8) $(-5)(-3)$

$= (15)$

9) $\frac{-80}{-10}$

$= (8)$

10) $\frac{0}{-5}$

$= \boxed{0}$

11) $\frac{-35}{0}$ ← Cannot divide by 0

UNDEFINED

12) $\frac{-40}{8}$

$= \boxed{-5}$

13) $-40 \div -5$

$= (8)$

14) $-50 \div 5$

$= (-10)$

Algebra 1 Name KEY ID: 1

NAQ.a Date Period

NAQ.a.2

NO CALCULATOR

Evaluate numeric expressions that include two operations and positive and negative integers. Clearly show work. Circle your answer.

1) $8-(-1)+(-8)=$

$8+1+(-8)=$

$-8+9=$

(1)

Rewrite as an addition problem

Remember = SIGNS

2) $3-(-8)-5=$

$3+8+(-5)=$

$-5+11=$

(6)

You must show this addition step!

Show this step!

3) $-7\cdot-5\cdot5=$

$35\cdot5=$

(175)

Show every step in the order of operations! AND GO DOWN!

4) $-4\cdot-5\cdot3\cdot-2=$

$20\cdot3\cdot-2=$

$60\cdot-2=$

(-120)

5) $6-(-4-5)=$

$6-(-9)=$

$6+9=$

(15)

WRITE AS AN ADDITION PROBLEM

6) $-8\div(2-4)=$

$-8\div-2=$

(4)

7) $-6\div2-4=$

$-3-4=$

(-7)

8) $2\div-2-3=$

$-1-3=$

(-4)

Algebra 1

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NAQ.a.3

Evaluate complex numeric expressions that include three or more operations, parentheses, and positive and negative integers.

* **Clearly show work. Circle your answer.**

1) $2 - 12 \div 2 \cdot -4 =$

$2 + (-6) \cdot -4 =$

$2 + 24 =$

26

Show steps going down

2) $(-14 + 3 \cdot 2) \div -4 =$

$(-14 + 6) \div -4 =$

$-8 \div -4 =$

2

3) $-5 \cdot -2 - (-4 + 3) =$

remember = signs

$-5 \cdot -2 - (-1) =$

$-5 \cdot -2 + 1 =$

$+10 + 1 =$

11

4) $(-5 \cdot 2) \div (-5 + 3) =$

$(-10) \div (-2) =$

5

Algebra 1

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NAQ.a.4

Evaluate complex numeric verbal expressions involving at least 2 operations. Rewrite as numeric expression using ()'s only when needed. Clearly show work. Circle your answer.

1) double the sum of 2 and -7

$2(2+(-7))$ OR $2(2-7)$

$= 2(-5)$ $= 2(-5)$

$\boxed{-10}$ $\boxed{-10}$

2) twice -10 plus 50

$2(-10)+50$ → OR → $2 \cdot -10 + 50$

$-20+50=$

(30)

3) the sum of -12 and 2 cubed

$-12+2^3=$

remember $2^3 = 2 \cdot 2 \cdot 2$

$-12+8=$

(-4)

4) the product of 9 and the quantity of 5 and -15

$9(5+(-15))$

OR

$9(5-15)=$

$9(-10)=$

$\boxed{-90}$

Quantity means ( )'s