Class Name : **H. Algebra I**

Student Name : _____

Instructor Name : **Mr. Aspiras**

Instructor Note : **This assignment is designed to help prepare you for the beginning of Algebra 1. Try not to use a calculator. Instead, try to do all calculations with only pencil and paper. Be sure to include, and clearly indicate, all final answers on this form. Attach any extra paper used to the back of the assignment.**

Question 1 of 56

A sports tournament has m teams. Each team has 5 players. Using m, write an expression for the total number of players in the tournament.

Question 2 of 56

Yesterday, Mary had 137 baseball cards. Today, she gave c away. Using c, write an expression for the number of cards Mary has left.

Question 3 of 56

Translate the phrase into an algebraic expression.

The product of 5 and c

Question 4 of 56

Translate the phrase into an algebraic expression.

6 *more than* w

Question 5 of 56

Translate this phrase into an algebraic expression.

Three more than the product of 12 and Gail's height

Use the variable g to represent Gail's height.

Question 6 of 56

Translate this phrase into an algebraic expression.

7 *increased by twice Jenny's score*

Use the variable j to represent Jenny's score.

Question 7 of 56

Evaluate.

$$11^2$$

Question 8 of 56

Evaluate.

$$3^3$$

Question 9 of 56

Evaluate the following.

$$2 \times 9 + 20 \div 4 - 4$$

Question 10 of 56

Evaluate the following.

$$12 \div 2 + 4 + 3 \times 6$$

Question 11 of 56

Evaluate the following expression.

$$\left[1 + (17 - 5) \div 3\right] \times 7$$

Question 12 of 56

Evaluate the following expression.

$$42 \div \left[(18 - 13) \times 8 - 33\right]$$

Question 13 of 56

Evaluate.

$$16 + 8^2 \div 4$$

Question 14 of 56

Evaluate.

$$6 + 9^2 \div 3$$

Question 15 of 56

Evaluate.

$$\frac{4(1+5)}{2+3^2-8}$$

Question 16 of 56

Evaluate.

$$8^2 - \left(3 + 2 \cdot 4^2\right)$$

Question 17 of 56

Evaluate. Write your answers as fractions.

$$\left(-\frac{3}{2}\right)^3 =$$

$$\frac{-4}{5^2} =$$

Question 18 of 56

Evaluate. Write your answers as fractions.

$$\frac{4}{3^3} =$$

$$\left(-\frac{4}{5}\right)^2 =$$

Question 19 of 56

Evaluate $-15-(-20)\div 5.$

Question 20 of 56

Evaluate $-6-(-12)\div 6.$

Question 21 of 56

Find the value of $c+19$ when $c=8.$

Question 22 of 56

Find the value of $b-7$ when $b=19.$

Question 23 of 56

Find the value of $48\div b$ when $b=8.$

Question 24 of 56

Find the value of $c\div 6$ when $c=42.$

Question 25 of 56

Evaluate the expression when $c=6$ and $d=7.$

$$d+8c$$

Question 26 of 56

Evaluate the expression when $g=8$ and $h=5.$

$$h+7g$$

Question 27 of 56

Evaluate the expression when $b = 9$.

$$b^2 - 13$$

Question 28 of 56

Evaluate the expression when $m = 8$.

$$m^2 + 19$$

Question 29 of 56

Evaluate the expression when $x = 6$ and $y = 3$.

$$\frac{2y + x^2}{x}$$

Simplify your answer as much as possible.

Question 30 of 56

Evaluate the expression when $b = 14$ and $c = 6$.

$$\frac{b + c^2}{b - 2c}$$

Simplify your answer as much as possible.

Question 31 of 56

Evaluate.

$$\frac{5}{6} - \frac{1}{3} \cdot \frac{7}{8}$$

Write your answer in simplest form.

Question 32 of 56

Evaluate.

$$\frac{7}{8} + \frac{3}{4} \cdot \frac{1}{4}$$

Write your answer in simplest form.

Question 33 of 56

Evaluate the expression when $b = -2$ and $c = 3$.

$$b - 6c$$

Question 34 of 56

Evaluate the expression when $a = -5$ and $x = 2$.

$$a - 9x$$

Question 35 of 56

Evaluate the expression when $x = -6$.

$$x^2 + 6x + 5$$

Question 36 of 56

Evaluate the expression when $x = -2$.

$$x^2 + 9x + 3$$

Question 37 of 56

Simplify.

$$6b - 2b$$

Question 38 of 56

Simplify.

$$8a - 2a$$

Simplify.

$$3a - 9a$$

Simplify.

$$-12x - 5x$$

Simplify.

$$\frac{2}{3}a - \frac{1}{4}a$$

Simplify.

$$\frac{1}{5}a + \frac{2}{3}a$$

Simplify.

$$7.5x - 4.6x$$

Simplify.

$$4.9y + 2.5y$$

Use the distributive property to remove the parentheses.

$$6(3-v)$$

Question 46 of 56

Use the distributive property to remove the parentheses.

$$9(w-2)$$

Question 47 of 56

Use the distributive property to remove the parentheses.

$$-3(-x+3v-4)$$

Question 48 of 56

Use the distributive property to remove the parentheses.

$$-9(6x-2v-5)$$

Question 49 of 56

Use the distributive property to remove the parentheses.
Simplify your answer as much as possible.

$$\frac{2}{5}(4+10y)$$

Question 50 of 56

Use the distributive property to remove the parentheses.
Simplify your answer as much as possible.

$$9\left(\frac{2}{3}-3x\right)$$

Question 51 of 56

Simplify.

$$3(u-3)-7u$$

Question 52 of 56

Simplify.

$$-4(w+5)+2w$$

Question 53 of 56

Simplify.

$$3y-6(-3z+4y)-4z$$

Question 54 of 56

Simplify.

$$-6w-2(5z-4w)+6z$$

Question 55 of 56

Simplify the following expression.

$$11x^2+6-2x-8x^2-14x$$

Question 56 of 56

Simplify the following expression.

$$-10x^2-2x-7x^2+6+13x$$