Name: Summer Packet Entering Alg I

1) Write as a decimal

a) 
$$\frac{5}{11} = -$$

d) 
$$\frac{3}{7}$$
 =

2) Write as a fraction

3) Solve:

Write as a percent: 0.148

4) Solve:

Write as a fraction: 83%

Solve: 5)

Write as a decimal: 99%

Solve: **6**)

Write as a fraction: 0.19

Solve: 7)

> Convert to a decimal:

Solve: 8)

20 speakers for \$8 (round to 2 decimal places)

(Round to 5 decimal places)

9) Solve

Write in scientific notation: 430000000

10) Solve

Write in decimal notation:  $-2.2 \times 10^{12}$ 

11)	Solve Write in scientific notation: 0.00000000000034		Solve Write in decimal notation: -4.3x10 <sup>-12</sup>		
13)	Solve: Which is different?  5 6.2%, 0.0063, 6.3x10 <sup>-3</sup> ,  800	14)	Solve. Explain how you get the answer without using a calculator:  46  =		
15)	Solve. Explain how you get the answer without using a calculator. What do you get when you add an odd number and an even number?	16)	Solve. Explain how you get the answer without using a calculator: 75 =		
17)	Solve. Explain how you get the answer without using a calculator $-1^2$	18)	Solve. Explain how you get the answer without using a calculator: $24 \div 4 =$		
19)	Solve: Is 562863 divisible by 10? (Warste the rule used	20)	Solve: Is 80432 divisible by 8? (Write the rule used)		
21)	Solve: Is 562976 divisible by 3? (Write the rule used)	22)	Solve: Is 13697 divisible by 9? (Write the rule used)		

23)	Is 168377 divisible by 11? (With the rule used)	What is the GCF of 60 and 2?
25)	Solve: 26) What is the LCM of 12 and 6?	Solve: Write the following numbers in order from greatest to least: -35, -4, 39 (iis 2 , n equality symbols)
27)	Solve: 28) Write the following numbers in order from greatest to least: 16, -45, 24 (is e in equal (it) symbols)	Solve: Write the following numbers in order from greatest to least:  -7 -1 42
29)	Solve:  Write the following numbers in order from least to greatest:  23 -3 9  43 7 23	45 2 19 (Use inequality Symbols)  Write the following numbers in order from least to greatest: 3.56, -1.6, 8.23 (Use inequality symbols)
31)	Solve:  Write the following numbers in order from least to greatest: 2.6, 1.8, 0.61  (Use inequality symbols)	Solve: Write the following numbers in order from greatest to least:  , 42000, and  (Use in equacity symbols)
		The sylvesty

Solve:

Write the following numbers in order from greatest to least:

34) Name the set or sets of numbers to which each real number belongs:
-67

-2400, 2600, and



(Use inequality symbols)

Name the set or sets of numbers to 36) which each real number belongs:

Name the set or sets of numbers to which each real number belongs:

-8

 $\sqrt{51}$ 

37) Graph:

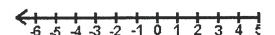
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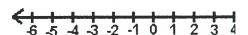
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38) Graph:

12

5

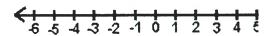


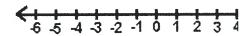


39) Graph:

 $-\sqrt{28}$ 

40) Graph:





$$7 + 5 \cdot 6$$

$$3 - 1 + 8$$

$$9 [3^2 - 3(1 + 9)] \div 9 + 6$$

$$(4 - 5) \cdot 6$$

46) Name the Property (example:

associative property of multiplication)

$$(1 + -3) \cdot -4 = 1 \cdot -4 + -3$$

$$2 + 0 = 2$$

48) Name the Property (example: associative property of

multiplication)

if 
$$x = 1$$
 and  $-2x - 1 = y$  then  $-2(1) - 1 = y$ 

if 
$$x + 4 = -2$$
 and  $-2 = -x + 3$  then  $x +$ 

if 
$$x + 4 = -2$$
 and  $-2 = -x + 3$  then  $x + 4 = -x + 3$ 

if 
$$-3x - 3 = 2$$
 then  $-3x - 3 + 2 = 4$ 

5

#### Solve:

### **54)** Solve:

#### Solve:

#### Solve: **56**)

#### Solve:

$$5.695 \div 4.245 =$$

#### Approximate (to 2 decimal 58) places):

## 59)

#### Solve:

Nancy found 31 chairs for \$6. Please help Nancy by figuring out the ratio. (round to 2 decimal places)

#### Solve: **60**)

There is a special at the store: \$36 for 7 tulips. Paul is trying to figure out if it's a good deal. Help Paul figure out the unit price (round to 2 decimal places)

Evaluate:  $-3x + 1 - (2x^2 - 3)$  when  $\chi = 1$ .

Evaluate:  $3x^2(-2x^2 + x) + 18$ when x = -4.

Solve:

Is 1 a perfect square?

# **64)** Solve:

Is -1 a perfect square?

## **65**)

Simplify:

**Approximate:**Between which two whole numbers is:

$$\sqrt{162} =$$

#### **67**)

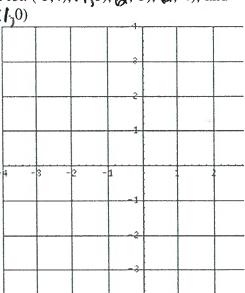
**Approximate:** 

Between which two whole numbers

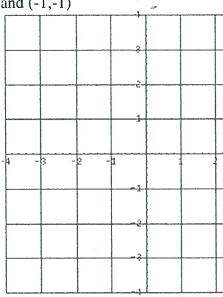
# 68) Evaluate:

 $(-1)^7 =$ 

Plot the points: Plot: (-3,4), (1,0), (2,-3), (2,-4), and (1,0)



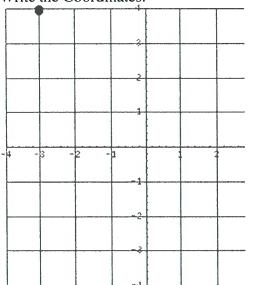
70) Plot the points: Plot (-3,-1), (-4,2), (-4,0), (1,4), and (-1,-1)



**71**)

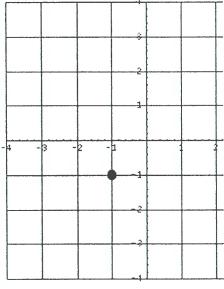
Solve:

Write the Coordinates:



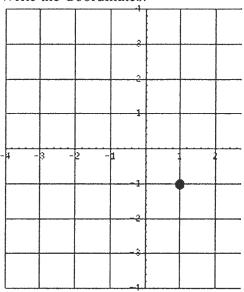
Solve:

Write the Coordinates:



Solve:

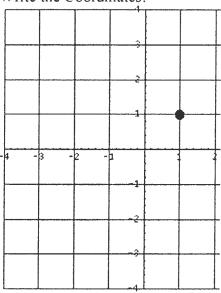
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Write the Coordinates:



**74)** Solve:

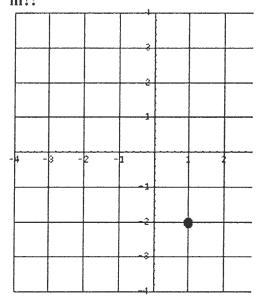
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Write the Coordinates:

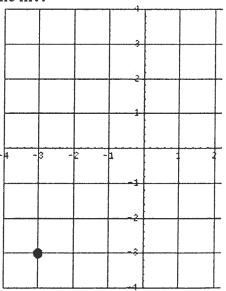


**75**)

Which Quadrant does the point lie 76) in?:



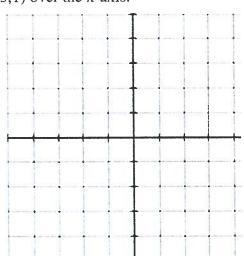
Which Quadrant does the point lie in?:



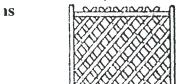
77) Which guadrants do the following point lie in?
a) (-2,2)

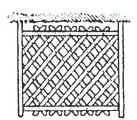
**79) Solve:** 

Reflect the quadrilateral with vertices: (-2,4), (-2,1), (3,4), and (3,1) over the x-axis.



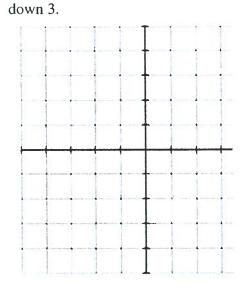
78) Identify the Transformation:





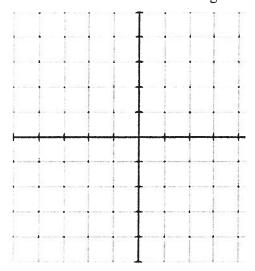
80) Solve:

Translate the point defined by (-3,1) by moving it right 4 and



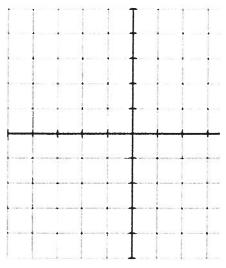
#### Solve:

Rotate the triangle with vertices: (4,2), (2,-1), & (-3,-3) by  $90^{\circ}$ counterclockwise around the origin.



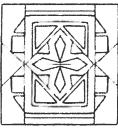
#### **82)** Solve:

Dilate the quadrilateral with vertices: (-2,3), (-2,4), (-4,3), and (-4,4) starting from the origin and using a scale factor of 4.



83)

Identify the number of Lines of Symmetry (if any):



84)

Identify the Key Word(s):

Find the word(s) that mean add: Both Bill's dimes and her dimes are less than Rachel started with.

85)

Identify the Key Word(s):

Find the word(s) that mean <u>subtract</u>: By how many apples did Tim's apples decrease?

86) **Identify the Key Word(s):** 

Find the word(s) that mean multiply:

Craig's cars times her cars are less than Sara started with.

**Identify the Key Word(s):** Find the word(s) that mean <u>divide</u>: At what speed was Larry going when he got a ticket?

**88)** Solve:

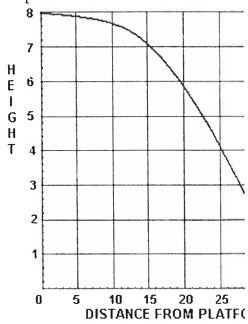
What is the meaning of domain?

89)

### Solve:

What is the dependent variable in this picture?

90) Is the relation a function?  $\{(8,4), (-1,7), (4,-3), (-3,7)\}$ 

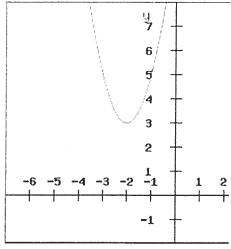


Is the relation a function?

8 7

Solve for z

92) Is the relation a function?



93)

94) Solve for z

95)

Solve:

Find the domain:

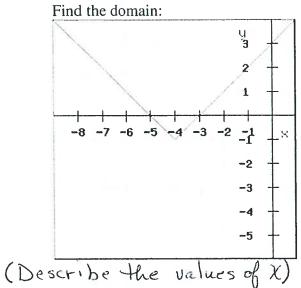
 $\{(9,4), (1,-2), (2,8), (7,1)\}$ 

**96)** Solve:

What is the domain of:

\*\*

Solve:



98) Solve:

Find the range:

$$\{(-1,1), (4,-4), (-1,8), (2,2)\}$$

99)

Solve:

What is the range of:

x y

9 2

-5 5

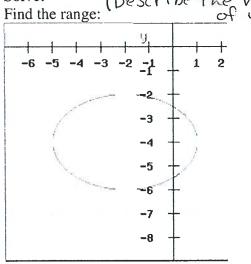
1 -5

9 -3

100) Solve:

(Describe the values of y)

XX



101)

Simplify:  $-10e^3 + 10e^2$ 

102) Simplify:  $10\text{m}^2\text{s}^2 + -2\text{m}^2\text{s}^2$ 

10 3)

Simplify:  $-2bwy^2 - b^2wy^2$ 

(04) Simplify:  $-z^2 - 5z^2$ 

Simplify: 
$$(2kr^2)(-2k)$$

# *i* 0 **6**) **Simplify:** (7)(7m<sup>2</sup>)

**Simplify:** 
$$(-3x) + (-2x + 5)$$

$$l \circ 8$$
) Simplify:  
 $(-2x^2 - 4x + 3) + (3x^2 - 5x + 1)$ 

Simplify: 
$$(h^2 - h - 4) - (-h + 4)$$

(/0) Simplify: 
$$(-3x^2 - 3x + 2) - (2x^2 + 4x - 1)$$

Simplify: 
$$(-2x^2 + 3x)(2x^2)$$

$$//2$$
) Simplify:  $-5(4x^2 + 4x + 1)$ 

(13)

Solve for 
$$x$$
:  
 $x - 4 = -9$ 

Solve for x: 
$$x - 8 = -8$$

(15)

**Solve for x:** 
$$x + 9 = -5$$

(i) Solve for x: 
$$x + 9 = 5$$

117) Solve 
$$\frac{x}{2} + \frac{3}{8} = 1$$

119) Solve

$$-X+5+6X=1-5X+3$$

120) Solve 
$$4(2x-3) = 3 + 8x - 11$$

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