Name	Date	Pd

CYU 1.1 – 1.4 Quiz Review

✓ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Inequalities		14 - 18	39 - 45
Translating words into mathematical sentences		19 - 36	37 - 38
Integers	13	14 - 18	
Absolute Value, Opposite Number, + - #	1 -8	9 - 12	39 - 45
Natural & Whole Numbers	13		
Real numbers	13		
Rational & Irrational Numbers	13		
Simplest Form/Lowest Terms	46 - 54		
Multiply Fractions/Divide Fractions		49 - 52	
Adding Fractions/Subtracting Fractions		46 - 48	53 - 54
LCD		46 - 48	53 - 54
Mixed Numbers/Improper Fractions			53 - 54
Evaluating exponent notation		55 – 60	
Order of Operations: PEMDAS		55 - 60	
Operation Symbols: +, -, ·, ÷	55 - 60		
Evaluating Expressions		61 - 66	
Solution/Answer			37 - 38

1/212		
Name	Date	Pd

Quiz Review 1.2 - 1.4

Answer the following with positive, negative, or 0.

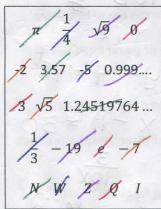
- 1) The opposite of a positive number is a <u>negative</u> number.
- 2) The sum of two negative numbers is a _______ number.
- 4) The absolute value of zero is ______
- 5) The reciprocal of a positive number is a ______ number.
- 6) The sum of a number and its opposite is
- 7) The absolute value of a positive number is a ______ number.
- 8) The opposite of a negative number is a ________number.

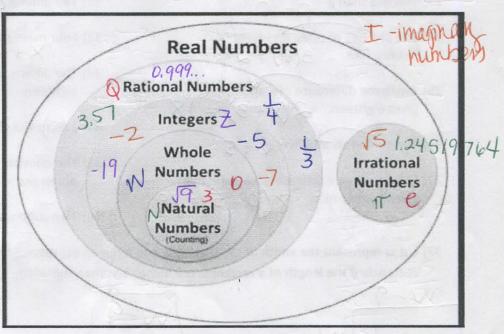
Fill in the chart.

Problem	Number	Opposite	Absolute Value		
9)	$\frac{1}{7}$	- +	17 = -7 = 7		
10)	$-\frac{12}{5}$	12 5	$ \frac{12}{5} = \frac{12}{5} = \frac{12}{5}$		
11)	(3.	-3	3 = -3 =3		
12)	- 9	9 11	1-9 = 9 = 9		

Know the definitions of each type of number category. Then place the bank of numbers into the best

most specific location.





Fill in the chart below.

Problem	Inequality	Number Line	Integers Included
14)	-4 < x ≤ -1 (-4, -1)	< <u>□</u> →	-3,-2,-1
15)	-2< X = 4 (-2, 4]	-5 -4 -3 -2 -1 0 1 2 3 4 5	-1,0,1,2,3,4
16) answer	-4 = X = 6	-4 6	-4, -3, -2, -1, 0, 1, 2, 3, 4, 5
17)	0 < x < 3		0,1,2,
18)	-44X43 (-4,3)	-5 -4 -3 -2 -1 0 1 2 3 4 5	-3,-2,-1,0,1,2

Translating Sentences, Expressions, & Statements.

		V			
19) The	sum of	six and	nine	is	fifteen.
		-			

- 6+1=1520) The quotient of three and seven
- 21) The sum of two and eight gives ten. 2+8=10
- 22) The product of eight and seven is fiftysix. 8(7) = 56
- 23) Ten less than p
- 24) The product of three and eight is twenty-four. 3(8) = 24
- 25) Twice the difference of x and three gives eighteen. 2(x-3) = 18
- 26) The sum of six and five 6+5
- 27) Eight times the difference of p and five gives twenty-nine. 8(p-5)=29

- 28) Six times the difference of b and g 6 6-9
- 29) Nine times the sum of d and three gives twenty-five. 9(d+3) = 25
- 30) Three more than x is equal to fortyseven. X + 3 = 47
- 31) The different of ten times b and g
- 32) Four more than x is equal to twelve.
- 33) The difference of y and fourteen is eighteen. 4 14 = 18
- 34) Eleven less than x is equal to thirty.
- 35) The quotient of three and the product of ten and x 3
- 36) Two subtracted from six
- 37) Let w represent the width of the rectangle and write an expression for the length of the rectangle if the length of a rectangle is 9 inches less than the width.

38) Salvador has dimes and quarters in his pocket. The number of dimes is nine less than thirteen times the number of quarters. Let q represent the number of quarters, and write an expression for the number of dimes.

d = 139 - 9 139 - 9

Absolute Value: Simplify the first four and fill in the last three with the correct inequality symbol.

39)
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<u>Fractions:</u> Perform the indicated operation in proper order and write your final answer in simplest form. Show all your work to earn full credit.

form. Show all your work to earn full credit.

46)
$$5\frac{1}{3} - 7\frac{6}{5} + 3\frac{7}{8}$$

47) $13\frac{1}{4} - 3\frac{3}{8} - 4\frac{2}{10}$

48) $8\frac{2}{6} - 3\frac{3}{5} - 2\frac{1}{12}$

49) $1\frac{3}{4} + \frac{3}{8}$

49) $1\frac{3}{4} + \frac{3}{8}$

50) $6\frac{2}{5} \cdot \frac{7}{30}$

49) $1\frac{3}{4} + \frac{3}{8}$

50) $6\frac{2}{5} \cdot \frac{7}{30}$

51) $\frac{1}{5} \cdot \frac{5}{12}$

52) $6\frac{3}{14} \cdot \frac{1}{3}$

53) $7\frac{5}{14} + 6\frac{1}{12}$

54) $4\frac{3}{12} - 2\frac{3}{12}$

$$52) 6 \frac{3}{14} \div \frac{1}{7}$$

$$87 \div \frac{1}{7} \text{ KCF}$$

$$2 \cdot \frac{33}{4} + \frac{49}{8}$$

$$87 \cdot 7 = 609$$

$$14 \cdot 1 = 14$$

$$= 87$$

$$115$$

$$87$$

Exponents & Order of Operations

PEMDAS

56) $(5 \cdot 2 + 9^2) + 9$

$$55) (52-2) \div 2 + 6^{2}$$

$$50 \div 2 + 6^{2}$$

$$50 \div 2 + 36$$

$$25 + 36$$

$$50 \div 2 + 6^{2}$$

$$50 \div 2 + 36$$

$$(10 + 81) + 9$$

$$91 + 9$$

$$100$$

$$58) \{(3)(2) + 5^{2}\} - 9$$

$$59) (73 - 5^{2}) \div (31 - 7)$$

$$73 \div 25 \div (31 - 7)$$

$$86 + 25 - 9$$

$$48 \div 24$$

57)
$$(37 - 3^{2}) \div (20 - 6)$$

 $(31 - 9) \div (70 - 6)$
 $28 \div 14$

59)
$$(73 - 5^{2}) \div (31 - 7)$$
 60) $(6 + 4)^{2} + (20 \div 5)$ $(73 - 25) \div (31 - 7)$ $(10)^{2} + (4)$ $100 + 4$ 2 104

Evaluate the Expressions

61) If
$$r = 27$$
 and $d = 2$: $3 - \frac{r}{9} - 8d$

$$3 - \frac{27}{9} - 8(2)$$
 $3 - 3 - 16 - 16$
 $0 - 16$

63)
$$-8 - 9z + 4 + 3n$$
 if $z = 2$ and $n = 4$

$$-8-9(2)+4+3(4)$$
 $-8-18+4+12$
 -10

65)
$$-4(9b + 5w)$$
 if $w = 5$ and $b = 9$

$$-4(9(9)+5(5))$$
 $-4(81+25)$
 $-4(106)$
 -424

Things to study for this quiz include:

- Notes
- Homework

62) If f = 2 and w = 4: 8f - 7 + 2w

64) d + 2n if d = 4 and n = 5

66) -3h - 8(9s - 2) if s = 4 and h = 5

$$\begin{array}{c}
-3(5) - 8(9(4) - 2) \\
-15 - 8(36 - 2) \\
-15 - 8(34) \\
-15 - 272
\end{array}$$

$$\begin{array}{c}
-287
\end{array}$$

- Concept Checks
- **Vocab Checks**