

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

Answer the following with positive, negative, or 0.

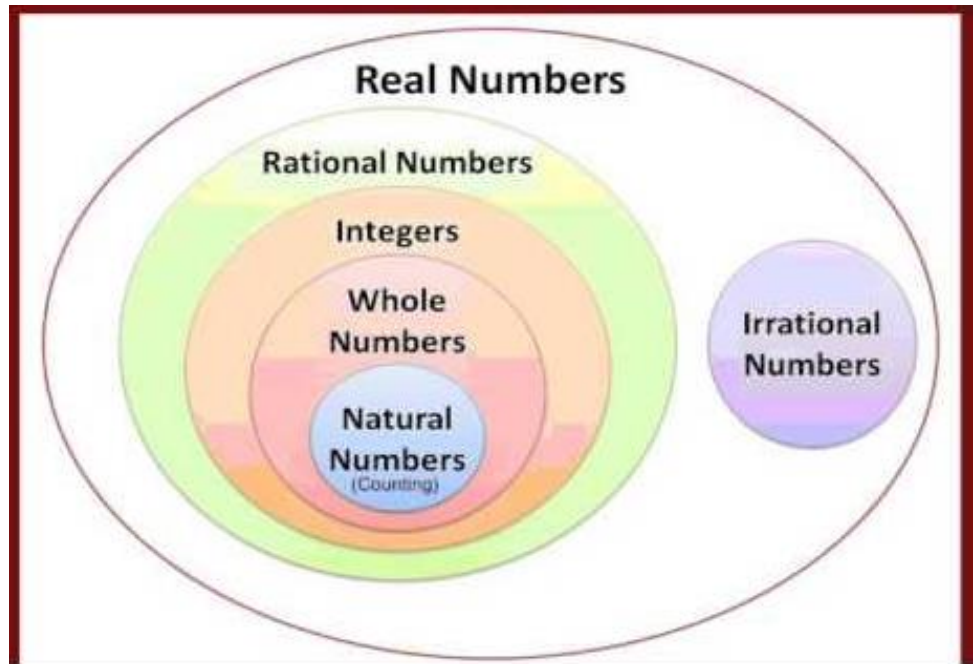
- 1) The opposite of a positive number is a _____ number.
- 2) The sum of two negative numbers is a _____ number.
- 3) The absolute value of a negative number is a _____ number.
- 4) The absolute value of zero is _____.
- 5) The reciprocal of a positive number is a _____ number.
- 6) The sum of a number 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.

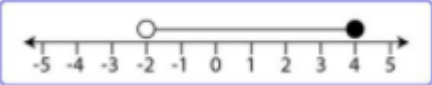
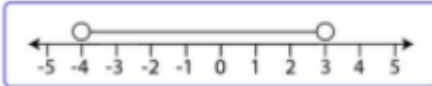
Problem	Number	Opposite	Absolute Value
9)	$\frac{1}{7}$		
10)	$-\frac{12}{5}$		
11)		-3	
12)		$\frac{9}{11}$	

13. Know the definitions of each type of number category. Then place the bank of numbers into the best most specific location.

π	$\frac{1}{4}$	$\sqrt{9}$	0
-2	3.57	-5	0.999...
3	$\sqrt{5}$	1.24519764 ...	
$\frac{1}{3}$	-19	e	-7
<i>N</i>	<i>W</i>	<i>Z</i>	<i>Q</i> <i>I</i>



Fill in the chart below.

Problem	Inequality	Number Line	Integers Included
14)	$-4 < x \leq -1$		
15)			
16)			-4, -3, -2, -1, 0, 1, 2, 3, 4, 5
17)	$0 \leq x < 3$		
18)			

Translating Sentences, Expressions, & Statements.

- 19) The sum of six and nine is fifteen.
- 20) The quotient of three and seven
- 21) The sum of two and eight gives ten.
- 22) The product of eight and seven is fifty-six.
- 23) Ten less than p
- 24) The product of three and eight is twenty-four.
- 25) Twice the difference of x and three gives eighteen.
- 26) The sum of six and five
- 27) Eight times the difference of p and five gives twenty-nine.
- 28) Six times the difference of b and g
- 29) Nine times the sum of d and three gives twenty-five.
- 30) Three more than x is equal to forty-seven.
- 31) The difference of ten times b and g
- 32) Four more than x is equal to twelve.

33) The difference of y and fourteen is eighteen.

34) Eleven less than x is equal to thirty.

35) The quotient of three and the product of ten and x

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.

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

39) $|(-3)(6)|$

40) $-|5 - 2|$

41) $-2|2 - 5|$

42) $-|-12|$

43) $|-3| \underline{\hspace{1cm}} |-5|$

44) $|2 - 7| \underline{\hspace{1cm}} |5(-3)|$

45) $-|5 - 9| \underline{\hspace{1cm}} |-6| \div |-2|$

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

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

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) $1\frac{3}{4} \div \frac{3}{8}$

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

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

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

53) $7\frac{5}{4} + 6\frac{1}{8}$

54) $4\frac{3}{10} - 2\frac{3}{4}$

Exponents & Order of Operations

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

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

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

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

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

60) $(6 + 4)^2 + (20 \div 5)$

Evaluate the Expressions

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

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

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

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

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

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

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

