	ne:orin/Losquadro		9195 - 1 - Pag Date: Math 8
	Unit 10 - Types of Numbers Test Review		
	estions 1 and 2 refer to the following: the number line below to answer the given question.	8)	2(7+3) = 2 • 7+2 • 3 A) Commutative Property of Addition B) Associative Property of Multiplication
1)	T U VW X YZ $-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6$ Which of the letters shown represents $-\sqrt{2}$ on the number line?	9)	 C) Multiplication Property of Equality D) Distributive Property 3(x + 2) = 3x + 6 A) Identity Property for Multiplication B) Distributive Property
2) Que	A) U B) T C) W D) V Which of the letters shown represents $-\frac{4}{5}$ on the number line? A) X B) W C) V D) U estions 3 through 13 refer to the following:		 C) Commutative Property of Addition D) Multiplication Property of Equality -3(x - 3) = -3x + 9 A) Distributive Property B) Multiplication Property of Equality C) Identity Property for Multiplication
Determine which number property is illustrated by the given statement:		11)	D) Commutative Property of Multiplication $0+y=y$
3)	 a + b = b + a A) Associative Property of Addition B) Distributive Property C) Property of Additive Inverse D) Commutative Property of Addition 	12)	 A) Identity Property for Addition B) Commutative Property of Addition C) Property of Additive Inverse D) Associative Property of Addition z = 1 × z
4)	 3+(5+7)=3+(7+5) A) Distributive Property B) Associative Property of Addition C) Commutative Property of Addition 	13)	 A) Associative Property of Multiplication B) Property of Multiplicative Inverse C) Identity Property for Multiplication D) Commutative Property of Multiplication 0 × y = 0
5)	 D) Property of Additive Inverse 5+(x+1)=5+(1+x) A) Associative Property of Addition B) Property of Additive Inverse C) Commutative Property of Addition 	14)	 A) Distributive Property B) Commutative Property of Multiplication C) Property of Multiplicative Inverse D) Multiplication Property of Zero Which of the following fractions has the largest value?

15) Choose the fraction with the **smallest** value.

- D) Distributive Property
- $5 \times (9 \times 2) = 5 \times (2 \times 9)$ 6)
 - A) Distributive Property
 - B) Commutative Property of Multiplication
 - C) Property of Multiplicative Inverse
 - D) Associative Property of Multiplication
- 5 + (1 + x) = (5 + 1) + x
 - A) Associative Property of Addition
 - B) Distributive Property
 - C) Identity Property for Addition
 - D) Commutative Property of Addition

- 16) Lindsey is cutting a long piece of taffy into smaller pieces so she can share them with her friends. The lengths of the taffy pieces are $1\frac{1}{5}$ inches, $1\frac{4}{5}$ inches, $2\frac{2}{3}$ inches, $1\frac{3}{4}$ inches, and $2\frac{1}{5}$ inches. Which list of lengths is ordered from shortest to longest?

 - A) $1\frac{4}{5}, 1\frac{3}{4}, 1\frac{1}{5}, 2\frac{2}{3}, 2\frac{1}{5}$ C) $2\frac{2}{3}, 1\frac{3}{4}, 1\frac{1}{5}, 2\frac{1}{5}, 1\frac{4}{5}$
 - B) $1\frac{1}{5}$, $2\frac{1}{5}$, $2\frac{2}{3}$, $1\frac{3}{4}$, $1\frac{4}{5}$
- D) $1\frac{1}{5}$, $1\frac{3}{4}$, $1\frac{4}{5}$, $2\frac{1}{5}$, $2\frac{2}{3}$

Questions 17 through 23 refer to the following:

Choose the answer choice that makes the given statement **true**.

- 17) $-3\frac{1}{9}\Box -4.1$
 - A) $-3\frac{1}{9} = -4.1$
- C) $-3\frac{1}{8} < -4.1$
- B) $-3\frac{1}{9} > -4.1$
- 18) $-4\frac{1}{2}\Box -4.5$
 - A) $-4\frac{1}{2} > -4.5$
- C) $-4\frac{1}{2} = -4.5$
- B) $-4\frac{1}{2} < -4.5$
- 19) $-3.3 \square 3\frac{1}{2}$
 - A) $-3.3 < -3\frac{1}{2}$
- C) $-3.3 = -3\frac{1}{2}$
- B) $-3.3 > -3\frac{1}{2}$
- 20) $-4\frac{1}{3}\Box -4.3$
 - A) $-4\frac{1}{3} > -4.3$
- C) $-4\frac{1}{2} < -4.3$
- B) $-4\frac{1}{3} = -4.3$
- 21) $-\frac{5}{4}\Box \frac{2}{3}$
 - A) $-\frac{5}{4} > \frac{2}{3}$
- B) $-\frac{5}{4} = \frac{2}{3}$ C) $-\frac{5}{4} < \frac{2}{3}$

- -7 🗆 -2
 - A) -7 < -2

- -4.3□-8.1 23)
 - A) -4.3 = -8.1
- C) -4.3 < -8.1
- B) -4.3 > -8.1

- Which of the following is an example of the inverse property of multiplication?
 - A) $5 \times (7 \times 3) = (5 \times 7) \times 3$
 - B) $15 \times 0 = 0$
 - C) $15 \times 1 = 15$
 - D) $5 \times \frac{1}{5} = 1$
- Which property of numbers does the following example show?

$$\frac{2}{3} \times \frac{3}{2} = 1$$

- A) inverse property of multiplication
- B) identity property of multiplication
- associative property of multiplication
- D) distributive property of multiplication over addition
- 26) Which number property do these statements demonstrate?

$$9 + (-9) = 0$$
 and $-5 + 5 = 0$

- A) commutative property of addition
- B) associative property of addition
- C) inverse property of addition
- D) identity property of addition
- 27) Which number property does this statement describe?

"The sum of a number and its opposite is zero."

- A) commutative property of addition
- inverse property of addition
- identity property of addition
- D) associative property of addition
- The *best* description of the number $-\sqrt{36}$ is
 - A) an integer
 - an integer and an irrational number
 - an integer and a rational number
 - an integer and an irrational number
- The best description of the number -5 is
 - an integer and a rational number
 - a natural number
 - an integer and an irrational number
 - a natural number and a rational number
- Which of the following is an integer?
 - A) 6.6

B) -6.6

- Which of the following is an integer?
 - A) -10.1

C) 10.111...

B) 101

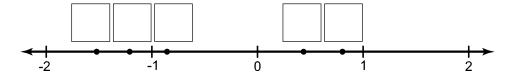
- D) 10.1
- 32) Which of the following numbers is *not* a counting number?
 - A) -1
- B) 0
- C) 1
- D) 10

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33)	Which of the following is a natural number?			2) Which of the following is a rational num				
	A) $\frac{3}{4}$	C) √9		A) $\sqrt{8}$		$\sqrt{20}$		
				B) $\sqrt{12}$	D)	$\sqrt{121}$		
	B) 2.4 D) $\sqrt{7}$			Which of the following is a rational number?				
34)	34) Which of the following is a natural number?			A) $\sqrt{20}$	C)	$\sqrt{9}$		
	A) 8.9	C) -8		B) $\sqrt{5}$	D)	$\sqrt{12}$		
	B) -8.9	D) 8		Which of the following is an integer?				
35)	Which is an example of the commutative property of			A) $\sqrt{5}$	C)	π		
	addition?			B) $\sqrt{49}$	D)	$\sqrt{8}$		
	A) $2+3=3+2$		45)	Which of the following is an irra	itiona	l number?		
	B) $2+3=1+4$ C) $(2+3)+4=2+(3+4)$			A) $\sqrt{3}$		$\sqrt{400}$		
	D) $2(3+4)=2 \cdot 3+2 \cdot 4$				ĺ	•		
20	, , ,			B) $\frac{8}{11}$	D)	5.7		
36)	Which is an illustration of the associative property?		46)	Which of the following is an irra	itiona	l number?		
	A) $ab + 0 = ab$ B) $a + (b + c) = (a + b) + c$			_				
	C) $a(b+c) = ab + ac$			A) $\sqrt{4}$ B) $\sqrt{6}$	C)	$\overline{4}$	D) ()
	D) $a+b=b+a$		47)	Which of the following is an irrational number?				
37)	Which is an illustration of the as	ssociative property?		A) $\sqrt{9}$	C)			
	A) $a(bc) = (ab)c$	C) $a + 0 = a$		D) 1				
	B) $a(b+c)=ab+ac$	D) $ab = ba$		B) $-\frac{1}{3}$	D)	π		
38)	Which sentence is an example o	ntence is an example of the distributive property?		Is 5.67 rational or irrational?				
	A) $a \cdot 1 = a$	C) $a(b+c) = ab + ac$						
	B) $ab = ba$	D) $a(bc) = (ab)c$						
39)	What number is the multiplicative	ve identity element?	49)	Is $\sqrt{3}$ rational or irrational?				
	A) 0 B) $\frac{1}{2}$	C) -1 D) 1	50)	Is $\sqrt{4}$ rational or irrational?				
40)	What number is the additive identity element?		50)	is $\sqrt{4}$ rational of inational?				
	A) 0 D) 1	C) 1 D) 1						
	A) 0 B) -1	C) 1 D) $\frac{1}{2}$						
41)	Which of the following is a ratio							
	A) $\sqrt{\frac{5}{8}}$	C) $\sqrt{16}$						
	B) $\sqrt{15}$	D) π						
			l					

51) *Part A*

Andrea wanted to put the following numbers on the number line.

In the boxes above the points on the number line, write the correct number for each point.



Part B

(a) Which number below is greater?

Answer: _____

(b) On the lines below, explain how you know which number is greater.

52) *Part A*

Which of the numbers below are rational numbers?

$$-3, \pi, \frac{5}{16}, 3, -9, 7, 2$$

Answer: _____

Part B

Identify which of the following numbers are **not** rational numbers.

$$-1, \frac{3}{6}, 2, 5, -4, 0, 10$$

Answer: _____

- 1) D 2) B 3) D 4) C 5) C
- 6) B 7) A 8) D 9) B 10) A
- 11) A 12) C 13) D 14) A 15) B
- 16) D 17) B 18) C 19) B 20) C
- 21) C 22) A 23) B 24) D 25) A
- 26) C 27) B 28) C 29) A 30) D
- 31) B 32) A 33) C 34) D 35) A
- 36) B 37) A 38) C 39) D 40) A
- 41) C 42) D 43) C 44) B 45) A
- 46) B 47) D
- 48) rational
- 49) irrational
- 50) rational
- 51) Part A: -1.5, -1.2, -0.9, 0.4, 0.8; Part B: (a) -1.2; (b) SAMPLE ANSWER: -1.2, is greater because it is closer to the number 0 on a number line.
- 52) Part A: -3, 3, $\frac{5}{16}$, -9, 2; Part B: 0