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Instructor: Deb Wertz Course: MAP102 MASTER

Assignment: Homework #5

1. Select the answer that best completes the given statement.

 $0 \cdot a = (1)$

- (1) 0
- 2. Select the answer that best completes the given statement.

The (1) _____ of the nonzero number b is $\frac{1}{b}$.

- (1) Opposite
 - reciprocal
 - absolute value
 - exponent
- 3. Select the correct choices that complete the sentence below.

 $\frac{0}{4}$ is (1) _____ while $\frac{4}{0}$ is (2) _____

- (1) undefined
- (2) 0 4.
- 0

square root

- undefined.
- 4. Select the correct choices that complete the sentence below.

The fraction $-\frac{a}{b} = (1)$ = (2)

- (1) $\bigcirc \frac{a}{b}$ (2) $\bigcirc \frac{a}{-b}$
- 5. Select the answer that best completes the given statement.

The opposite of nonzero number a is (1)

- (1) $O(\frac{1}{a})$

 - a.
 - a.

ô.	Select the correct choice that completes the sentence below.
	The reciprocal of nonzero number a is (1)
	$\begin{array}{c} (1) & \bigcirc \frac{1}{a}. \\ \bigcirc -a. \end{array}$
7.	Select the answer that best completes the given statement.
	The (1) property has to do with "order."
	(1) Commutative distributive associative
3.	Select the correct choice that completes the sentence below.
	The (1) property has to do with "grouping."
	(1) Commutative associative distributive
9.	Evaluate.
	-3 ²
	$-3^2 = $

10. Find the value of the expression.

$$\left(-\frac{1}{10}\right)^3$$

$$\left(-\frac{1}{10}\right)^3 = \underline{\hspace{1cm}}$$
(Simplify your answer.)

11. Choose the fraction(s) equivalent to the given fraction.

$$-\frac{1}{5}$$

Select all that apply.

- \Box **B**. $\frac{1}{5}$
- ☐ **C**. <u>-1</u> <u>5</u>
- □ D. -1-5
- 12. Choose the fraction(s) equivalent to the given fraction.

Select all that apply.

- $A. \frac{8}{(p+r)}$
- \Box **B.** $\frac{8}{(p+r)}$
- -8 (p+r)
- \Box **D**. -8 $\overline{-(p+r)}$
- 13. Choose the fraction(s) equivalent to the given fraction.

Select all that apply.

- \bigcirc **A.** $-\frac{8r}{9s}$
- ☐ **B.** −8r 9s
- □ **C**. 8r -9s
- ☐ **D**. 8r 9s

 $40 \div (8 \div 4) =$ _____ (Type an integer or a simplified fraction.)

 $(40 \div 8) \div 4 =$ _____ (Type an integer or a simplified fraction.)

Therefore, division (1) _____ associative.

- (1) O is
- O is not

- 1. (1) 0
- 2. (1) reciprocal
- 3. (1) 0
 - (2) undefined.
- 4. (1) $\frac{-a}{b}$
 - (2) $\frac{a}{-b}$.
- 5. (1) -a.
- 6. (1) $\frac{1}{a}$.
- 7. (1) commutative
- 8. (1) associative
- 9. -9
- $-\frac{1}{1000}$
- 11. A. $\frac{1}{-5}$, C. $\frac{-1}{5}$
- 12. A. $-\frac{8}{(p+r)}$, C. $\frac{-8}{(p+r)}$
- 13. D. $\frac{8r}{9s}$
- 14. 20
 - <u>5</u>
 - (1) is not