Student: _____ **Date:** _____ **Time:** _____	**Instructor:** courtney trabue **Course:** GMC LSS Mathematics **Book:** Martin-Gay: Developmental Mathematics	**Assignment:** MAT 097 Symbols & Sets of Numbers (81)

1. Insert $<$, $>$, or $=$ in the space between the paired numbers to make the statement true.

   6 8

   6 ☐ 8

2. Insert $<$, $>$, or $=$ in the space between the paired numbers to make the statement true.

   7 1

   7 ☐ 1

3. Insert $<$, $>$, or $=$ in the space provided to make the statement true.

   0 __ 7

   0 ☐ 7

4. Determine whether the statement is true or false.

   $6 \leq 6$

   Choose the correct answer below.

   ○ false

   ○ true

5. Determine whether the statement is true or false.

   $-13 > -10$

   Choose the correct answer below.

   ○ false

   ○ true

6. Determine whether the statement is true or false.

$6.292 < 6.922$

Choose the correct answer below.

- ○ false
- ○ true

7. Determine whether the statement is true or false.

$\frac{11}{12} \leq \frac{9}{10}$

Choose the correct answer below.

- ○ true
- ○ false

8. Write the following sentence as a mathematical statement.

Zero is less than eleven.

The answer is ☐.

9. Write the following sentence as a mathematical statement.

Nine is greater than or equal to seven.

The answer is ☐.

10. Write the following sentence as a mathematical statement.

Four is not equal totwelve.

The answer is ☐.

11. Use an integer to represent the value in the statement.

From 2000 to 2005, the population ofOak Grove decreased by 32,188.

The integer that represents the value is ☐.

12. Use integers to represent the values in the following statement.

Julie Monroe deposited $503 in her savings account. She later withdrew $31.

The integer that represents the amount Julie Monroe deposited is ☐.

The integer that represents the amount Julie Monroe withdrew is ☐.

13. Graph the set of numbers on the number line.

$-1, 3, 5, -6$

Graph the first number, -1, on the number line below.

Graph the second number, 3, on the number line below.

Graph the third number, 5, on the number line below.

Graph the fourth number, -6, on the number line below.

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14. Graph the set of numbers on the number line.

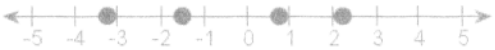
$$\left\{-4.75, \frac{1}{2}, 2.25, -\frac{1}{2}\right\}$$

Choose the correct solution below.

○ A.

○ B.

○ C.

○ D.


15. Choose which group of sets the following number belongs to. Be sure to account for ALL sets.

-1

○ A. integers, rational numbers real numbers

○ B. whole numbers integers, rational numbers natural numbers real numbers

○ C. whole numbers integers, irrational numbers natural numbers real numbers

○ D. integers, natural numbers real numbers

16. Choose which group of sets the following number belongs to. Be sure to account for ALL sets.

$-\frac{9}{10}$

○ A. real numbers, rational numbers

○ B. real numbers, irrational numbers

○ C. real numbers, rational numbers, natural numbers

○ D. rational numbers, natural numbers, integers

○ E. irrational numbers, natural numbers

17. Tell which set or sets the given number belongs to: natural numbers, whole numbers, integers, ration numbers, irrational numbers, and real numbers.

$\sqrt{20}$

Choose the correct answer for each set.

$\sqrt{20}$ [ ] a natural number.
$\sqrt{20}$ [ ] a whole number.
$\sqrt{20}$ [ ] an integer.
$\sqrt{20}$ [ ] a rational number.
$\sqrt{20}$ [ ] an irrational number.
$\sqrt{20}$ [ ] a real number.

18. Determine whether the statement is true or false.

$-\frac{\pi}{2}$ is a positive number.

- False
- True

19. Find the absolute value.

$|-26|$

$|-26| = \square$

20. Find the absolute value.

$\left|\frac{13}{3}\right|$

$\left|\frac{13}{3}\right| = \square$