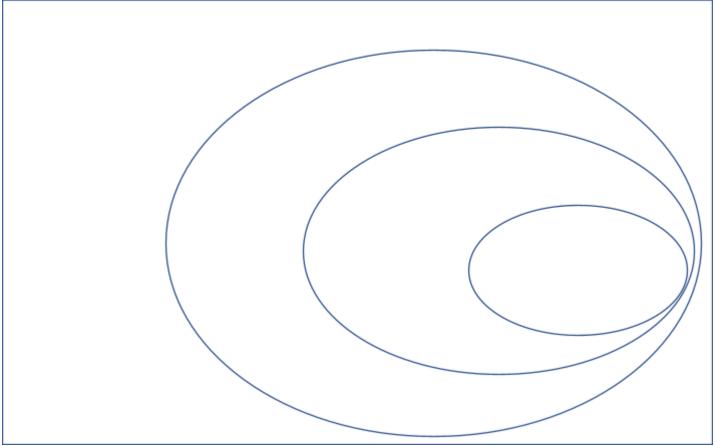
Name: _____

7M – U1 Rational Numbers Study Guide

Label the Venn Diagram properly with the word bank. Then classify the below numbers into the SMALLEST POSSIBLE CATEGORY that they fit into.

Word Bank: Rational Numbers	Natural Numbers Integers			gers	Whole Numbers				
12	-7	0	0.725	-2.43	3	5	-1		



Conversion Problems: Convert the following numbers into their opposite notation (decimals to fractions, fractions to decimals, percents to fractions)

 $2. \ 0.\overline{8}$

1. 0.275

5.
$$-\frac{5}{9}$$

For the below problems, create a number line for the given range. Provide the scale you used:

7.
$$-\frac{2}{3}$$
 to $2\frac{1}{3}$

Scale:

Scale:

Compare the following rational numbers. Use a number line if needed.

9. 0.28 and
$$\frac{1}{8}$$

10.
$$\frac{3}{12}$$
 and $\frac{7}{18}$

$$11. - 1.42$$
 and $- 1.57$

12. Order the below set from least to greatest. Use a number line if needed.

$$\{\frac{1}{8}, 14\%, 0.09, 0, -\frac{2}{12}\}$$

Solve the below rational number operations problems. SHOW ALL OF YOUR WORK

$$13. - \frac{2}{7} - \frac{6}{7} =$$

$$14.\frac{\frac{7}{12} + \frac{-3}{12}}{12} =$$

$$15. \frac{-12}{18} + \frac{-6}{18} =$$

$$16.\frac{3}{8} - \frac{9}{12} =$$

$$17.\frac{5}{6} \cdot - \frac{2}{3} =$$

$$18. - \frac{1}{4} \cdot - 8 \frac{4}{9} =$$

19.
$$\frac{\frac{4}{7}}{\frac{9}{13}}$$
 =

$$20. - 4\frac{6}{13} \div \frac{9}{12} =$$

$$21. - 5.37 \cdot - 3.9 =$$

22. 23,
$$244 \div - 2.4 =$$