

Name _____

Mrs. Roumbos

Date _____

8A Period _____

Take Home Quiz #1

Show as much work as possible

Due:

(out of 40 points)

1) True or False.

(2)

The integer set is a subset of the natural number set.

2) Evaluate: $\frac{6(15) - 5(4) + 30}{20 - 30 + 5}$

(4) (USE PEMDAS)

3) List the following in order from least to greatest. Show work!

$-\frac{1}{2}$, -2 , $-\sqrt{5}$, $\frac{11}{6}$, 0

4) What is the value of $5^3 - (3^2 - 2^5)$?
Show all work (USE PEMDAS)

(5)

5) True or False? The square root of 12 is irrational. Why?

(3)

6) Circle the rational number. Why is it rational?

(2)

-8.345 π $\sqrt{28}$ $.2658921\dots$

2) 7) 15 is the square root of what number.

3) 8) Describe a decimal that is irrational.

3) 9) Classify the number 0.
*looking for 6 different classifications
*Question #13 may help with 2 of them!

2) 10) Which property is illustrated by the equation below?
 $10 + (13 + 15) = (10 + 13) + 15$

1) 11) Write 8,250,000 in scientific notation.

2) 12) Is the following real or not real? Why?
 $\frac{11}{0}$

1) 13) What is the smallest even perfect square?

4) 14) Evaluate $V = \pi r^2 h$ when r is 6 and h is 8.
Round to the nearest hundredth.
*Show all PEMDAS steps