**MATH E-3: Assignment 2**

What set(s) of numbers do the following belong to (real, rational, irrational, integers, whole, natural). Be sure to list all for full credit.

1.

#  

 



Real, Irrational

Real, Rational, Integers, Whole

Real, Irrational

Real, Irrational

1. Is 1/7 a natural number? Why or why not?

While it is non-negative, it is not a whole number. Therfore it does not satisfy the qualifications of a Natural Number.

1. Is 2/3 a rational number? Why or why not?

2/3 Is not a rational number, because it requires the use of a decimal or fraction sign to be written.

Simplify if possible. If not, tell why you cannot:

5

## 8.

The Square Root of -27 is an imaginary number.

## 9.

The square root of -36 is an imaginary number.

## 10.

3

Solve the following. Remember you can rewrite those problems that are subtractions as additions of the opposite.

11.   ( )

-21

12.   

-18

13. -6 +9

3

Solve the following.

14.

Work:

(-6)(-4) = 24

24(3) = 72

-8 + -4 = -12

Answer:

72 / -12 = -6

-6

15. 5 − 6 ( 2 + 28 7 \* 2



Work:

5 - 6 (16) + 28 / 7 \* 4 =

5 - 96 + 4 \* 4 =

5 - 96 + 16=

-75

Answer:

-75

16. ()  4 ( )  ( ) Work:

-64 (-2) \* (-3) =

128 \* (-3) =

-384

Answer:

-384

Solve the following.

17. (-4) x (-15) x 4

(-6) x 10

Work:

60 \* 4 = 240 -4

=

-60

Answer: -4

18. (7 – 13) + 24 ÷ 4 \*2

Work:

-6 + 6(-4)^2 + 24 / 4 \* 2 =

-6 + 6(16) + 6 \* 2 =

-6 + 96 + 12 =

102

Answer:

102

19.

1

20.

-23

23