

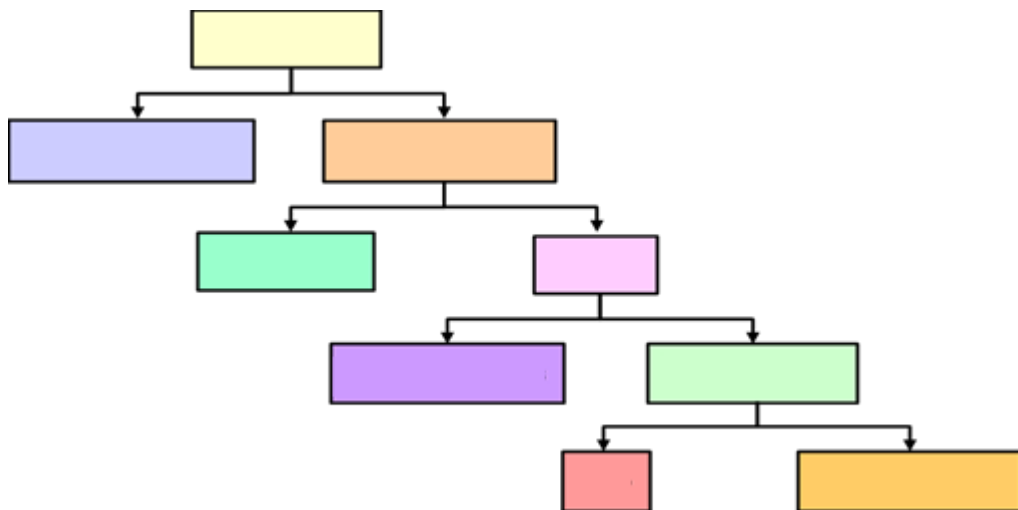
The Real Number System Assignment

1. Place each number in the most SPECIFIC categories of real numbers they belong.

-14	-6	$-\frac{2}{5}$	30	$\frac{3}{2}$	$-\frac{4}{9}$	0.66	0	8.52	-69.99
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- a) Real Numbers :
- b) Irrational Numbers :
- c) Rational Numbers :
- d) Non-integers :
- e) Integers :
- f) Negative Numbers :
- g) Whole Numbers :
- h) Zero :
- i) Natural Numbers :

2. Complete the diagram with the family of real numbers.



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3. Represent the following with integers.

- a. An increase of \$10 weekly allowance
- b. Raising the flag 3 feet higher
- c. Diving 150 meters below sea level
- d. Going down the stairs 15 steps
- e. Walking 10 blocks south
- f. Weight increase of 1.5 kilograms
- g. A bank deposit of \$1000
- h. \$100 Tom owes from a friend

4. Arrange the following real numbers as instructed.

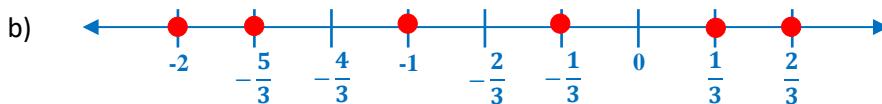
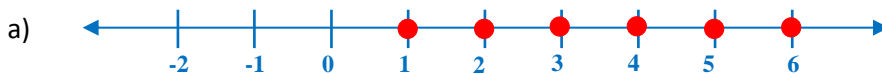
a) Descending

9, -1, 10, 0, 2, 1, -8, -7

b) Ascending

$\frac{1}{3}, -\frac{1}{2}, -5, -\frac{2}{3}, 2, -3$

5. Name the coordinates of the points graphed on each number line.



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6. Graph each set of numbers.

a) $\left\{-1, 0, \frac{1}{2}, \frac{3}{4}, \frac{3}{2}\right\}$

b) $\left\{-1.5, -\frac{1}{4}, 2, 3\frac{1}{2}, -4.5\right\}$

7. Find each absolute value.

a) $|-14|$

b) $|18|$

c) $|2.6|$

d) $\left|-\frac{1}{15}\right|$

e) $|-80|$

f) $|11|$

g) $|72|$

h) $|-4|$