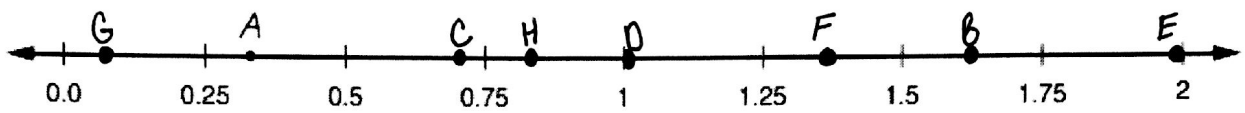
Day 4: Plotting, Comparing, & Rounding Decimals Key

1. Mark the appropriate locations of the decimals and fractions on the number lines below. Rename the fractions as decimals if necessary.

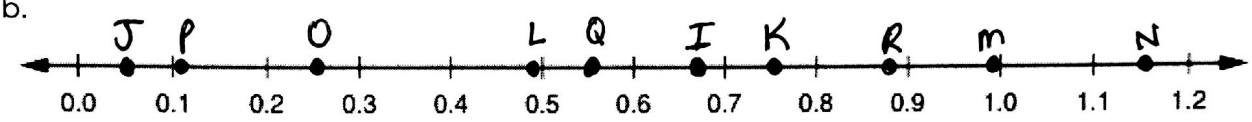
a.



~~A~~ 0.33 ~~B~~ 1.6 ~~C~~ 0.7 ~~D~~ 1.01

E 1.99 ~~F~~ 1.33 ~~G~~ 0.1 ~~H~~ 0.8

b.



~~J~~ 0.67 ~~O~~ 0.05 ~~K~~ $\frac{75}{100}$ .75 ~~L~~ 0.49 ~~M~~ 0.99

~~N~~ 1.15 ~~O~~ $\frac{25}{100}$ .25 ~~P~~ 0.101 ~~Q~~ 0.55 ~~R~~ 0.88

2. *Compare the following numbers using <, >, or =:*

a. 0.5 > 0.48 b. 1.470 < 1.472 c. 0.06 < 0.60 d. 0.90 = 0.90

3. *Order the decimals in order from least to greatest.*

a. ~~7.35~~, ~~9.45~~, ~~7.2~~, ~~7.94~~, ~~9.04~~, 9.72

7.2, 7.35, 7.94, 9.04, 9.45, 9.72

b. 0.~~553~~, ~~0.53~~, ~~0.053~~, ~~0.35~~, 0.~~55~~, ~~0.035~~

.035, .053, .35, .53, .55, .553

c. ~~2.13~~, ~~2.561~~, ~~2.098~~, ~~2.56~~, ~~2.375~~, ~~2.36~~

2.098, 2.13, 2.36, 2.375, 2.56, 2.561

d. ~~-5.6~~, ~~-4.2~~, ~~-5.75~~, ~~-5.62~~, -4.02, ~~-4.29~~

-5.75, -5.62, -5.6, -4.29, -4.2, -4.02

4. What's green on the inside, white on the outsides, and hops? Put the numbers in order from least to greatest to find out.

0.66	1	0.2	1.05	0.90	0.01	0.75	0.35	$\frac{25}{100}$ (.25)	$\frac{50}{100}$ (.50)	0.05	0.09	5.5
N	I	O	C	W	A	D	S	G	A	F	R	H

Write your answers in the following table. The first answer is done for you.

0.01	.05	.09	.2	$\frac{25}{100}$	.35	$\frac{50}{100}$	.66	.75	.90	1	1.05	5.5
A	F	R	O	G	S	A	N	D	W	I	C	H

5. *Round the following numbers to the stated place value:*

a. 37.823; hundredths
37.82

b. 89.7267; thousandths
89.727

c. 724.62; ones
725

d. 27.93; tens
30

e. 298.49; tenths
298.5

f. 893.2785; hundredths
893.28

g. 2383.982; hundreds
2400

h. 423.99; tenths
424.0

6. A decimal has two digits to the right of its decimal point. If we round to the nearest tenth, the result is 13.7.

a. What is the maximum possible value of what the original number was? 13.74

b. What is the minimum possible value of what the original number was? 13.65

13.65 to 13.74

7. A root beer factory produces 132,554 cases in 100 days. About how many cases does the factory produce in 1 day? Round your answer to the nearest case.

$132{,}554 \div 100 = 1325.54$ cases

$= \boxed{1326 \text{ cases}}$

Don't forget to study Days 1-4 for your quiz on Tuesday!