

Exam Review Schedule

Monday/Tuesday

Unit 3 Rational Numbers

Wednesday

Unit 2 Exponents

Thursday/Friday

Unit 1 Surface Area

Friday

Unit 5 Polynomials

***Review Binder must be completed and passed in the day of the Exam.**

***All work and answers will be posted on Web page**

Warm-Up January 16, 2017

Order from least to greatest [record your answer in its original form]

$$\begin{array}{ccccccc}
 \frac{2}{-5}, & -1.3, & \frac{-5}{3}, & \sqrt{3}, & -0.3, & 0.57, & \frac{1}{6} \\
 \text{ } & & \text{ } & \text{ } & & & \text{ } \\
 \frac{-5}{3}, & -1.3, & \frac{-2}{5}, & -0.3, & \frac{1}{6}, & 0.57, & \sqrt{3}
 \end{array}$$

Handwritten annotations:

- $\frac{2}{-5}$ is crossed out with -0.4 written above it.
- $\frac{-5}{3}$ is crossed out with $-1.6\bar{6}$ written above it.
- $\sqrt{3}$ has 1.73 written above it.
- $\frac{1}{6}$ is crossed out with $-0.1\bar{6}$ written above it.
- A bracket on the right groups the numbers $\frac{-5}{3}$, $\frac{-2}{5}$, and $\frac{1}{6}$ with their decimal equivalents: -0.30 , -0.40 , and -0.16 .

Rational Numbers

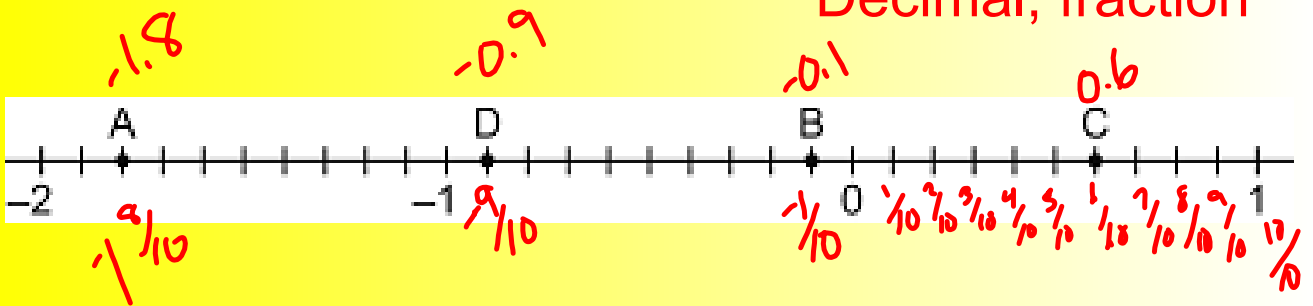
Stops [terminates]

OR
Repeats

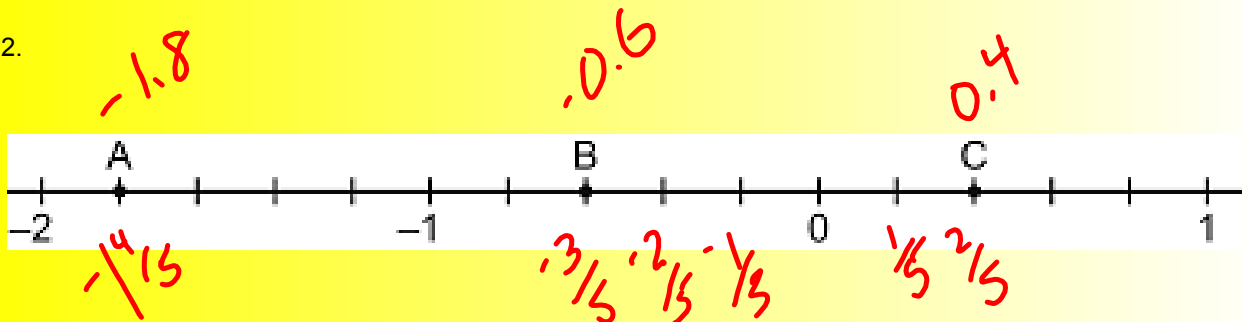
	Rational	Irrational
a) -4.3	✓	
b) $\sqrt{2} = 1.414213562\dots$		✓
c) $\frac{1}{3} = 0.\dot{3}$	✓	
d) 1.43621...		✓
e) 14	✓	
f) 0	✓	

1. Find the number represented by A, B, C, D

Decimal, fraction



2.



Solve each of the following making sure to express your answer in lowest terms:

$-4\frac{1}{2}$

$4\frac{1}{2}$

$9\frac{1}{2}$

$$2\frac{2}{5} + \left(-4\frac{1}{2}\right)$$

$$\begin{array}{c} \times 2 \\ \frac{12}{5} + \frac{-9}{2} \end{array}$$

$$\frac{24}{10} + \frac{-45}{10}$$

$$\frac{-21}{10} = -2\frac{1}{10}$$

* Add/subtract
Common
Denominators

* Multiply
Multiply numerators
Multiply denominators

* Divide
change to multiplication
and take reciprocal
[flip]

$$\left(\frac{10}{7}\right)\left(-\frac{13}{8}\right)$$

$$\frac{-130}{56}$$

$$-2\frac{18}{56}$$

$$-2\frac{9}{28}$$

$$\left(-4\frac{3}{5}\right)\left(-2\frac{5}{12}\right)$$

$$-23\frac{1}{5} \times -29\frac{5}{12}$$

$$\frac{667}{60} \left(11\frac{7}{60}\right)$$

$$3\frac{1}{4} - \left(-2\frac{2}{3}\right)$$
$$\begin{array}{r} \times 3 \\ \times 3 \end{array} \frac{13}{4} - -\frac{8 \times 4}{3 \times 4}$$
$$\frac{39}{12} - -\frac{32}{12}$$
$$\frac{71}{12} = \left(5\frac{11}{12}\right)$$

$$\left(-2\frac{1}{5}\right) \div \left(-4\frac{3}{4}\right)$$

change to X

$$-\frac{11}{5} \div -\frac{19}{4}$$

flip

$$-\frac{11}{5} \times \frac{4}{19}$$

$$\frac{44}{95}$$

SOLVE...REMEMBER ORDERS OF OPERATION!!!

BEDMAS

$$3^2 - 14 + 8 \times 2 - 3^2 + (-8 - 7) \times 5$$

$$9 - 14 + 8 \times 2 - 9 + -15 \times 5$$

$$9 - 14 + 16 - 9 + -15 \times 5$$

$$9 - 14 + 16 - 9 + -75 \leftarrow$$

$$-73$$

...No Calculator!!!

$$\frac{2}{3} \times \left(-\frac{1}{2} \right) + \frac{5}{6}$$

$$\frac{-2}{6} + \frac{5}{6}$$

$$\frac{3}{6} = \frac{1}{2}$$

$$\frac{3}{8} - \frac{9}{4} \div \left[\left(\frac{\overset{\times 5}{-25}}{\overset{\times 5}{4}} \right) + \left(\frac{\overset{\times 2}{-2}}{\overset{\times 2}{10}} \right) \right]$$

$$\frac{3}{8} - \frac{9}{4} \div \left[\frac{-25}{20} + \frac{-2}{20} \right]$$

$$\frac{3}{8} - \frac{9}{4} \div \frac{-27}{20}$$

← multiply
← flip

$$\frac{3}{8} - \frac{9}{4} \times \frac{20}{27}$$

$$\overset{\times 27}{\frac{3}{8}} \cdot \frac{-180 \times 2}{108 \times 2}$$

$$\frac{81}{216} - \frac{360}{216} = \frac{441}{216} = 2 \frac{9}{216} = 2 \frac{1}{24}$$

2 1/24

*Do NOT
MARK ON
SHEETS*

Homework
Multiple
Choice
1-13

Show all
work
1-3 no work
to show