Exam Review Schedule

Friday/Monday   **Unit 3 Rational Numbers**

Tuesday/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

Math 9 Exam Prep Booklet

January 2016

- We will be building this review booklet as we go.

- Each day you will be given review questions during class that relate to the topic being reviewed [see schedule below].

- You will then complete the review questions for homework.

- **Each day homework will be given and you will receive a mark of 5 or 0 [in order to get 5 marks the review binder must be broug class with all questions completed.]**

- This if the final review so **every question** must be treated as potential exam question so NO question will be left out.

- **To prepare for the exam questions should be practiced the night before the exam.**

- **Warm-ups are great for review!!!**

The following Chapters will be covered on the exam…

*Chapter 1…Squares and Surface Area

*Chapter 2….Powers

*Chapter 3…Rational Numbers

*Chapter 5…Polynomials

If you are absent you are responsible for the work. Remember this is review so you have seen it all before!!!

Math 9 Exam will be written on Tuesday, January 26, 2016

This completed binder must be returned the morning of January 26 in order to receive your homework/assignment mark
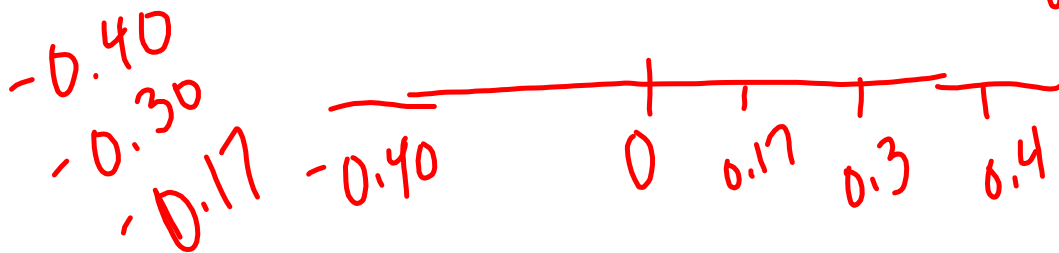

You will need: Calculator, 2 pencils, eraser and a ruler.

Warm-Up January 15, 2016

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

$$-\frac{2}{5},\ -1.3,\ \frac{-5}{3},\ \sqrt{3},\ -0.3,\ 0.57,\ -\frac{1}{6}$$

(handwritten annotations: LᐸG, -0.40, -1.67, 1.73, -0.17)

$$-\frac{5}{3},\ -1.3,\ -\frac{2}{5},\ -0.3,\ -\frac{1}{6},\ 0.57,\ -0.17$$

$$\sqrt{3}$$

-0.40
-0.30
-0.17

Number line: -0.40 ··· 0, 0.17, 0.3, 0.4

Rational Numbers

Stops [terminates]
OR
Repeats

	Rational	Irrational
a) -4.3	✔	
b) $\sqrt{2}$		✔
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

-1.8 -0.9 .05 -.01 0.6

A D B C

-2 -1 0 1

$-1\frac{8}{10}$ $-\frac{9}{10}$ $-\frac{5}{10}$ $-\frac{1}{10}$ $\frac{1}{10}$ $\frac{6}{10}$

2.

$-1\frac{4}{5}$ -0.6 0.4

A B C

-2 -1 0 1

-1.8 $-\frac{3}{5}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$
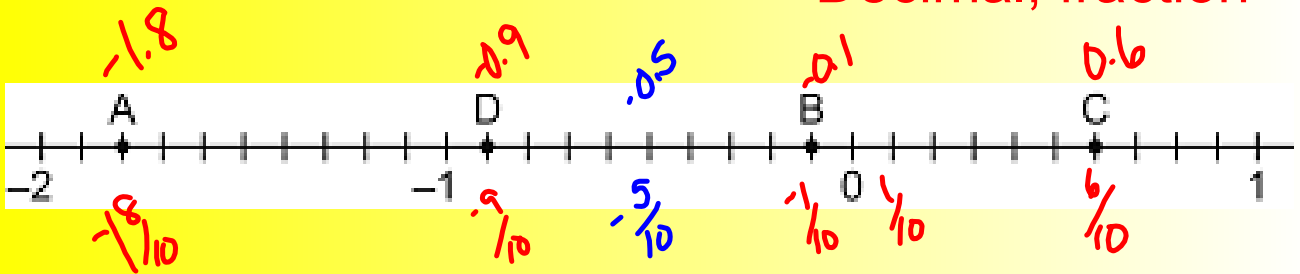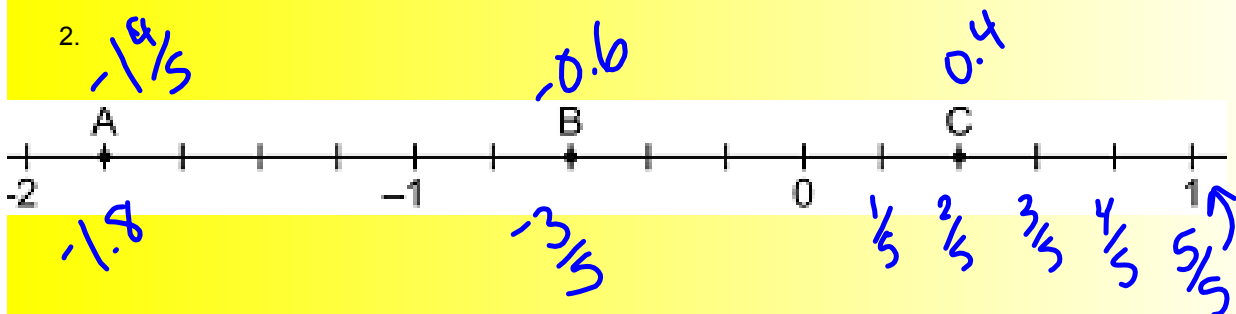
Solve each of the following making sure to express your answer in lowest terms:

NO CALCULATOR!!!

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

$$\times 2 \; \frac{12}{5} \; + \; \frac{-9}{2} \; \times 5$$

$$\frac{24}{10} + \frac{-45}{10} = \frac{-21}{10} \quad \boxed{-2\frac{1}{10}}$$

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

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

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

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

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

$$\left(-\frac{23}{5}\right)\left(-\frac{29}{12}\right)$$

$$\frac{667}{60} = 11\frac{7}{60}$$

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

$$\times 3 \; \frac{13}{4} \times 3 \quad - \left(-\frac{8}{3}\right) \begin{matrix} \times 4 \\ \times 4 \end{matrix}$$

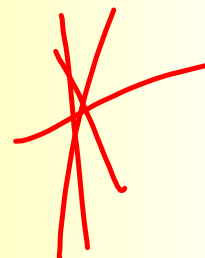$$\frac{39}{12} - -\frac{32}{12} = \frac{71}{12} = \boxed{5\frac{11}{12}}$$

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

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

change to ×

flip

$$\frac{-11}{5} \times \frac{-4}{19} = \boxed{\frac{44}{95}}$$

✳ When dividing fractions multiply by the reciprocal (flip fraction)

SOLVE...REMEMBER ORDERS OF OPERATION!!!
NO CALCULATORS!!!

BEDMAS !

3^2 - 14 + 8 x 2 - 3^2 + (-8 - 7) x 5

9 - 14 + 8 x 2 - 9 + (-15) x 5

9 - 14 + 16 - 9 + -75

-5 + 16 - 9 + -75

11 - 9 + -75

2 + -75   (-73)

$\ast$

...No Calculator!!!

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

$$\frac{-2}{6}_{3} + \frac{5}{6}$$

HW

Multiple Choice
1—11

Short Answer
14, 15, 16, 17

Problems
20, 21