

Warm-Up

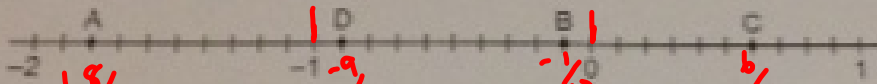


September 15

Assignment #1 [Homework Check]

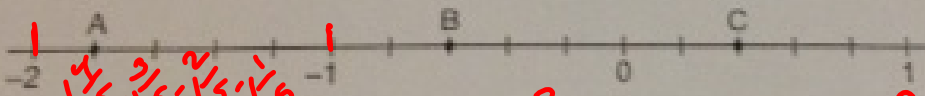
Name: _____

1. Write the rational number represented by each letter as a decimal.



A. -1.8 B. -0.1 C. 0.6 D. -0.9

2. Write the rational number represented by each letter as a fraction.



A. $-1\frac{4}{5}$ B. $-\frac{3}{5}$ C. $\frac{2}{5}$

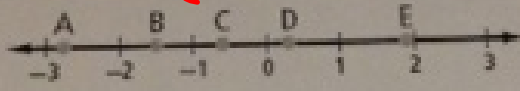
3. a) Circle the rational number(s).

2.1 $-\frac{3}{2}$ -1.5 π 3 $\sqrt{2}$ 55

b) Circle the numbers that are equivalent to 3.

~~$\frac{9}{3}$~~ 3.0 ~~$-\left(\frac{15}{3}\right)$~~ $\sqrt{9}$ $\frac{-21}{-7}$
 ~~$\frac{9}{3}$~~ 3 ~~$-\frac{15}{3}$~~ 3 3 $\frac{3}{1}$
 -3

4. Match each rational number to a point on the number line.



- a) -0.6 C
- b) $-\frac{3}{2}$ -1.5 B
- c) $-2\frac{3}{4}$ -2.75 A
- d) 1.9 E
- e) $0.\bar{3}$ D

5. What is the opposite of each rational number?

- a) $\frac{3}{2}$ _____
- b) $-6.\bar{8}$ _____
- c) $-2\frac{1}{5}$ _____

$-\frac{3}{2}$ $6.\bar{8}$ $2\frac{1}{5}$

Homework Questions???

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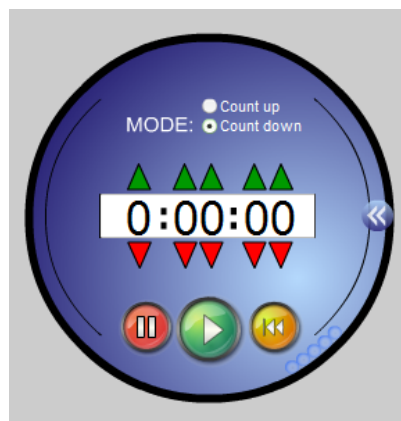
24. c) Greatest to Least

$$-\frac{9}{5}, -\frac{17}{10}, -\cancel{1\frac{1}{2}}, \frac{16}{4}, -\frac{11}{4}, \frac{21}{5}$$

$$-1.8, -1.7, -\cancel{1.5}, \cancel{4}, -2.75, \cancel{4.2}$$

$$\frac{21}{5}, \frac{16}{4}, -1\frac{1}{2}, -\frac{17}{10}, -\frac{9}{5}, -\frac{11}{4}$$

Section 3.1 quiz



3.2 Adding Rational Numbers

Add the following...

a. $3+7 = 10$

b. $-3+7 = 4$

c. $-3 + (-7) = -10$

d. $3 + (-7) = -4$

Remember to add fractions [rational numbers]
you need **COMMON DENOMINATORS!**

$$\overset{\times 5}{\underline{2}} + \overset{\times 3}{\underline{1}} \\ \overset{\times 5}{3} \quad \quad \quad \overset{\times 3}{5}$$

$$\frac{10}{15} + \frac{3}{15}$$

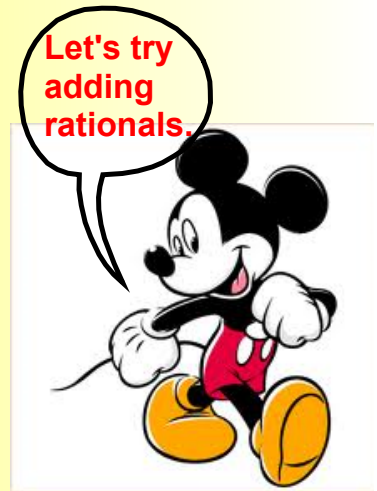
$$\frac{13}{15}$$

Remember **L**owest
Common **M**ultiple



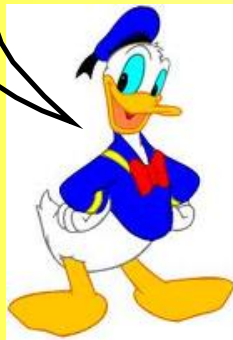
LCM
3, 6, 9, 12, (15), 18
5, 10, (15)

$$\begin{aligned}
 \text{B. } \frac{2}{3} + \frac{1}{-5} & \quad \overset{\times 5}{\frac{2}{3}} + \overset{-1 \times 3}{\frac{1}{5 \times 3}} \\
 & \quad \frac{10}{15} + \frac{-3}{15} \\
 & \quad \frac{7}{15}
 \end{aligned}$$



$$\begin{aligned}
 \text{C. } \frac{-5}{8} + \frac{7}{-2} & \quad \overset{\times 4}{\frac{-5}{8}} + \overset{\times 4}{\frac{7}{-2}} \\
 & \quad \overset{\times 2}{\frac{-5}{8}} + \overset{-7 \times 8}{\frac{7}{2 \times 8}} \\
 & \quad \frac{-5}{8} + \frac{-28}{8} \\
 & \quad \frac{-33}{8} \\
 & \quad \frac{-10}{16} + \frac{-56}{16} \\
 & \quad \frac{-66}{16} = \frac{-33}{8}
 \end{aligned}$$

**What about mixed
numbers
that are negative???**



Change each of the following into mixed numbers: Be careful when there is a negative!!!!!!!

$$a) \frac{23}{7} = 3\frac{2}{7}$$

$$b) \frac{12}{9} = 1\frac{3}{9} = 1\frac{1}{3}$$

$$c) -\frac{23}{7} = -3\frac{2}{7}$$

$$d) \frac{62}{-8}$$

$$-\frac{62}{8} = -7\frac{6}{8} = -7\frac{3}{4}$$