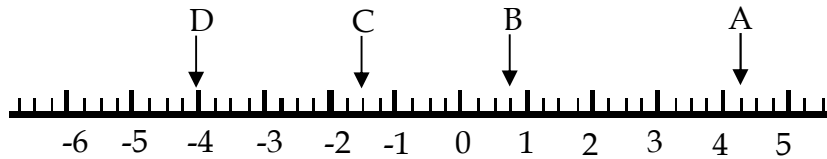


Name: _____

Math 9 Review Chapter 3 Rational Numbers

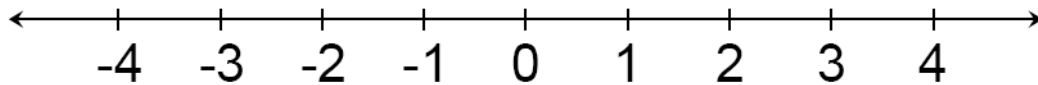
1. Write the rational number represented by each letter as a **decimal** and a **fraction** in lowest term.



A: _____ B: _____ C: _____ D: _____

2. Place the following numbers on the number line given below.

-3.4, $-\frac{7}{10}$, 1.6, $-3\frac{3}{4}$, 0.2, $\frac{10}{3}$



3. Evaluate the following expressions.

a. $-4.1 + 5.87 =$ b. $102.54 + (-87.03) =$ c. $-23.54 - 5.79 =$

g. $-1.21 \times 4.5 =$ h. $-8.6 \div (-0.25) =$ i. $-593.1 \div 131.8 =$

4. Evaluate the following, express answers as **fractions** in lowest term. All work must be shown; no credit will be rewarded for answer only.

a. $-\frac{7}{10} + \frac{1}{10} =$ b. $-\frac{8}{5} + \frac{11}{2} =$ c. $5\frac{1}{4} + \left(-\frac{19}{3}\right) =$

d. $-\frac{5}{6} - \frac{2}{3} =$ e. $-\frac{4}{3} - 4\frac{1}{2} =$ f. $\frac{7}{10} - \left(-\frac{13}{9}\right) =$

$$\text{g. } -\frac{5}{4} \times \left(-\frac{3}{20}\right) =$$

$$\text{h. } -\frac{8}{5} \times 1\frac{3}{4} =$$

$$\text{i. } -2\frac{1}{3} \times 4\frac{6}{7} =$$

$$\text{j. } -\frac{12}{13} \div \frac{39}{4} =$$

$$\text{k. } 3\frac{9}{10} \div \left(-1\frac{3}{13}\right) =$$

$$\text{l. } -\frac{20}{15} \div \left(-\frac{3}{4}\right) =$$

5. Evaluate. Show your work step by step to receive full credit.

$$\text{a. } 0.84 \times (-0.5) - (-2.3) =$$

$$\text{b. } (-5.86 + 3.46)^2 - (-2.1) \times 5$$

$$\text{c. } \frac{5}{3} \times 3 + 6 \div \frac{3}{2} + 10 - 4$$

$$\text{d. } (-3)^2 \times \left(\frac{4}{3} + 4 + \left(-\frac{7}{3}\right)\right)$$

$$\text{e. } \left(1 + (-2)^3\right)^{11} + \left(\frac{-4}{5}\right)$$

$$\text{f. } 4^2 - 3 \times 2 \times \frac{7}{3} \div \frac{7}{6}$$

$$\text{g. } 3 \div \frac{3}{2} \times \left(2 - \frac{1}{2} + 11 + \frac{11}{2} \right)$$

$$\text{h. } 2\frac{2}{9} \times \left(-1\frac{1}{3} \right) + \left(-1\frac{7}{9} \right) + 0.75$$

$$\text{i. } -10 \div \left[\left(-3\frac{2}{3} \right) - 2\frac{6}{7} \right] \times 5.6$$

$$\text{j. } \left[-4 - (3 + (-2)) \right] \div \left((-3) \div \left(\frac{-5}{2} \right) \right)$$

$$\text{k. } -\frac{1}{2} + \frac{3}{5} \div \left[\frac{9}{10} - \left(-\frac{3}{5} \right) \right] =$$

$$\text{L. } (-0.\bar{3} - 11) \div 1 - (-6 - 11)$$

$$\text{m. } \frac{-8.6 \times 14.6 - 5.3 \div [(-19.4) - 8.6]}{(-2.9) \times 6.3 - (-9.5)} =$$

$$\text{n. } \frac{-5.4 \div [(-0.125) + 4.5] + \left(-2\frac{2}{7}\right) - \frac{12}{25}}{(0.2)^2 \times 10} =$$

$$\text{o. } \left(0.25 \times 2^2 + \frac{-11}{5}\right)^2$$

$$\text{p. } 2.5 + 7.5 - \frac{9}{4} \div \left(9 \times 2^{\frac{4 \times 3}{3 \times 2}}\right)$$

$$\text{o. } 4.5 + \left(\frac{7}{6} - 0.5\right) \div \left(2 + 1 + 5 + \frac{8}{3}\right)$$

$$\text{p. } \left(\frac{4}{3} + 2\right) \div \left(6 \times \left(3 - \frac{2}{3}\right) \times 0.25 \times 2\right)$$