

Name: _____ Period: _____



Lesson 6.6 Worksheet

Write the number in **rational form** ($\frac{a}{b}$). Then give the **multiplicative inverse** and the **additive inverse** of the number.

1. 15.7

a. $\frac{157}{10}, \frac{10}{157}, -\frac{157}{10}$

b. $\frac{157}{10}, \frac{157}{10}, -\frac{157}{10}$

c. $\frac{157}{10}, -\frac{10}{157}, -\frac{157}{10}$

d. $\frac{157}{10}, -\frac{157}{10}, -\frac{10}{157}$

2. 9.2

a. $\frac{46}{5}, -\frac{5}{46}, \frac{46}{5}$

b. $\frac{46}{5}, -\frac{46}{5}, -\frac{5}{46}$

c. $\frac{46}{5}, \frac{5}{46}, -\frac{46}{5}$

d. $\frac{46}{5}, \frac{46}{5}, -\frac{46}{5}$

3. $4\frac{8}{9}$ _____, _____, _____

4. $\frac{5}{8}$ _____, _____, _____

5. -4 _____, _____, _____

Order the rational numbers from least to greatest.

6. 4.14, 28, $\frac{37}{9}$, $-23\frac{1}{2}$

7. 0.04, 1, $-\frac{62}{5}$, $17\frac{5}{7}$

8. 2.03, -29, $-\frac{51}{2}$, $-2\frac{2}{5}$

9. What number will make the number sentence true?

$$\frac{2}{7} \times \underline{\quad} = 1$$

10. What number will make the number sentence true?

$$38 \times \underline{\quad} = 0$$

11. What number will make the number sentence true?

$$\frac{5}{3} \times \underline{\quad} = 1$$

12. **Name each property shown (Commutative, Associative, Identity or Inverse).**

A. $11 + 0 = 11$

B. $37 \times 1 = 37$

C. $4 + 5 = 5 + 4$

D. $(3 + 4) + 5 = 3 + (4 + 5)$

E. $\frac{1}{4} \times 4 = 1$

F. $3(5) = 5(3)$

G. $(3 \cdot 4) \cdot 8 = 3 \cdot (4 \cdot 8)$

H. $19 + -19 = 0$

I. $x + 5 = 5 + x$