

Unit 0 Study Guide

Number Lines

1. Mark and label the following numbers on the number line below: $-4\frac{2}{3}$, $-\sqrt{37}$, $\sqrt{12}$, $\sqrt{80}$, and -0.75

**Fraction Operations**

Perform the following operations:

2. $2\frac{7}{12} + 8\frac{1}{3}$

4. $\frac{22}{50} \cdot \frac{6}{15} \cdot \frac{9}{66}$

3. $12\frac{4}{5} - 3\frac{2}{7}$

5. $5\frac{7}{9} \div 2\frac{3}{4}$

Integer Operations

6. $4 - (-9) + 15 =$

7. $|-2| - 32 =$

8. $\frac{-9+6}{12-36}$

9. $5[(-7) + (-3)] + 3 =$

Compare Numbers

10. Fill in the blank using <, >, or =.

2.125 _____ $\frac{17}{8}$

11. Fill in the blank using <, >, or =.

$\frac{3}{5}$ _____ $\frac{73}{99}$

12. Fill in the blank using <, >, or =.

12.5 _____ $\sqrt{150}$