Mastery Algebra 1 **Practice Mastery Quiz 1-3** Name: KEY

1. Simplify: $\sqrt{\frac{64}{49}} = \frac{\sqrt{64}}{\sqrt{49}} = \frac{8}{7}$

2. **Do you understand?** A classroom has an area of 350 square feet. If the classroom is shaped like a square, what is the approximate length of each side? $\sqrt{350} \approx 18.7$

   Each side is about 18.7 ft long.

3. To which subsets of the real numbers does the number 0 belong?

   whole, Integer, Rational

4. Write an inequality to compare the numbers $2\frac{3}{4}$ and $\sqrt{10}$.

   $2\frac{3}{4} < 3.1$

$-1.\overline{33}, 1.7, -3, -4.9, 2.1$

5. Order the numbers $-\frac{4}{3}, \sqrt{3}, -3, -\sqrt{24}$ *and* 2.1 from least to greatest.

   $-\sqrt{24}, -3, -\frac{4}{3}, \sqrt{3}, 2.1$