Guided Practice

Write each fraction or mixed number as a decimal. (Example 1)

- 1. $\frac{2}{5}$
- **2.** $\frac{8}{9}$ **3.** $3\frac{3}{4}$
- **4.** $\frac{7}{10}$ _____
- **5.** $2\frac{3}{8}$ _____
- **6.** $\frac{5}{6}$ _____

Write each decimal as a fraction or mixed number in simplest form. (Example 2)

- **7.** 0.675 _____
- **8.** 5.6 _____
- **9.** 0.44

- **10.** $0.\overline{4}$
 - 10x =

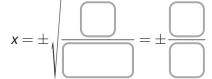
- **11.** 0.26
 - 100x =

- **12.** 0.325
 - 1000x =
 - -x

 $X = \underline{\hspace{1cm}}$

Solve each equation for x. (Example 3)

- **13.** $x^2 = 144$
- **14.** $x^2 = \frac{25}{289}$



15. $x^3 = 216$

$$x=\sqrt[3]{}$$

Approximate each irrational number to two decimal places without a calculator.

(Explore Activity)

- **16.** $\sqrt{5} \approx 1$
- **17.** $\sqrt{3} \approx$
- **18.** $\sqrt{10} \approx 10^{-10}$

ESSENTIAL QUESTION CHECK-IN

19. What is the difference between rational and irrational numbers?