

Decimals and Fractions

Guided Practice

Write each decimal as a fraction or mixed number in simplest form. (Examples 1–4)

1. $0.4 =$ _____

2. $0.64 =$ _____

3. $2.75 =$ _____

Show your work.

Write each fraction or mixed number as a decimal. (Examples 5 and 6)

4. $\frac{27}{75} =$ _____

5. $\frac{7}{2} =$ _____

6. $3\frac{1}{5} =$ _____

7. Mr. Ravenhead's car averages 23.75 miles per gallon of gasoline. Express this amount as a mixed number in simplest form. (Example 4) _____

8. **STEM** The Siberian tiger can grow up to $10\frac{4}{5}$ feet long. Express this length as a decimal. (Example 6) _____



Independent Practice

Write each decimal as a fraction in simplest form. (Examples 1–3)

1. $0.5 =$ _____

2. $0.7 =$ _____

3. $0.33 =$ _____

4. $0.875 =$ _____

Show your work.

Write each fraction or mixed number as a decimal. (Examples 5 and 6)

5. $\frac{77}{200} =$ _____

6. $\frac{1}{20} =$ _____

7. $\frac{12}{75} =$ _____

8. $8\frac{21}{40} =$ _____

9. **STEM** Mercury orbits the Sun in $87\frac{24}{25}$ Earth days. Venus orbits the Sun in $224\frac{7}{10}$ Earth days, and Mars orbits the Sun in $686\frac{49}{50}$ days. Write each mixed number as a decimal. (Example 6)

10. **STEM** Last week, a share of stock gained a total of 1.64 points. Express this gain as a fraction in simplest form. (Example 4)

26. Evita lives 0.85 mile from her school. Write this distance as a fraction in simplest form.

27. Rancho Middle School has an average of $23\frac{3}{8}$ students per teacher. Write this mixed number as a decimal.