

Number Theory and Fractions

Representing Fractions

Decimals and Fractions

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Example 1

Write each decimal as a fraction or mixed number.

1. 0.15

2. 1.25

3. 0.43

4. 2.6

Example 2

Write each fraction or mixed number as a decimal.

5. $\frac{2}{5}$

6. $2\frac{7}{8}$

7. $\frac{1}{8}$

8. $4\frac{4}{10}$

Example 3

Order the fractions and decimals from least to greatest.

9. $\frac{2}{3}$, 0.78, 0.21

10. $\frac{5}{16}$, 0.67, $\frac{1}{6}$

11. 0.52, $\frac{1}{9}$, 0.3

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1. $0.15 = \frac{15}{100}$, or $\frac{3}{20}$

3. $0.43 = \frac{43}{100}$

$$\begin{array}{r} 0.4 \\ 5 \overline{)2.0} \\ \underline{-2.0} \\ 0 \end{array}$$

$\frac{2}{5} = 0.4$

$$\begin{array}{r} 0.125 \\ 8 \overline{)1.000} \\ \underline{-8} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$\frac{1}{8} = 0.125$

9. Rewrite $\frac{2}{3}$ as 0.67.

$0.21 < 0.67$

$0.67 < 0.78$

$0.21, \frac{2}{3}, 0.78$

11. Rewrite $\frac{1}{9}$ as 0.1

$0.1 < 0.3$

$0.3 < 0.52$

$\frac{1}{9}, 0.3, 0.52$

2. $1.25 = 1\frac{25}{100}$, or $1\frac{1}{4}$

4. $2.6 = 2\frac{6}{10}$, or $2\frac{3}{5}$

$$\begin{array}{r} 0.875 \\ 8 \overline{)7.000} \\ \underline{-6.4} \\ 60 \\ \underline{-56} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$2\frac{7}{8} = 2.875$

$$\begin{array}{r} 0.1 \\ 10 \overline{)1.0} \\ \underline{-1.0} \\ 0 \end{array}$$

$4\frac{1}{10} = 4.1$

10. Rewrite $\frac{1}{6}$ as 0.17.

Rewrite $\frac{5}{16}$ as 0.3125

$0.17 < 0.3125$

$0.3125 < 0.67$

$\frac{1}{6}, \frac{5}{16}, 0.67$