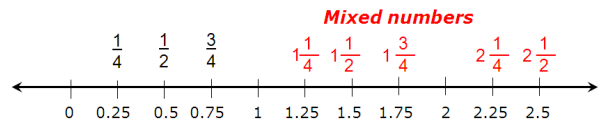


4.4 Decimals and Fractions

p. 181

12-13-17

A number that contains both a whole number greater than 0 and a fraction, such as $1\frac{3}{4}$, is called a **mixed number**.



Dec 16-10:54 AM

Dec 16-10:49 AM

Write each decimal as a fraction or mixed number.

$$0.67 = \frac{67}{100}$$

Write each decimal as a fraction or mixed number.

$$5.9 = 5\frac{9}{10} \text{ mixed number}$$

Write each decimal as a fraction or mixed number.

$$0.73 = \frac{73}{100}$$

Write each decimal as a fraction or mixed number.

$$4.8 = 4\frac{8}{10} \stackrel{\div 2}{=} \frac{4}{5}$$

Dec 16-10:49 AM

Dec 16-10:51 AM

Write each fraction or mixed number as a decimal.

$\frac{3}{20}$ $\frac{3}{20}$ $3 \div 20 = 0.15$
 terminating 0.15
 $20 \overline{) 3.00}$
 $\underline{-20}$
 100
 $\underline{-100}$
 0
 $0.8333\dots$
 $0.8\bar{3}$
 $2.8\bar{3}$
 repeating $6 \overline{) 5.000}$
 $\underline{-48}$
 20
 $\underline{-18}$
 20

Dec 16-10:51 AM

Writing Math

To write a repeating decimal, you can show three dots or draw a bar over the repeating part: $0.666\dots = 0.\bar{6}$

Dec 16-10:52 AM

Write each fraction or mixed number as a decimal.

$6\frac{1}{3}$ $3 \overline{) 1.00}$ $6.\bar{3}$
 $\underline{-9}$
 10

Write each fraction or mixed number as a decimal.

$\frac{5}{20}$ $20 \overline{) 5.00}$ D/N
 $\underline{-40}$
 100

Dec 16-10:52 AM

Write each fraction or mixed number as a decimal.

$7\frac{2}{3}$

Dec 16-10:52 AM

A **terminating decimal**, such as 0.75, has a finite number of decimal places. A **repeating decimal**, such as 0.666..., has a block of one or more digits that repeat continuously

| Common Fractions and Equivalent Decimals | | | | | | | | |
|--|---------------|------------------|---------------|---------------|---------------|------------------|---------------|---------------|
| $\frac{1}{5}$ | $\frac{1}{4}$ | $\frac{1}{3}$ | $\frac{2}{5}$ | $\frac{1}{2}$ | $\frac{3}{5}$ | $\frac{2}{3}$ | $\frac{3}{4}$ | $\frac{4}{5}$ |
| 0.2 | 0.25 | $0.\overline{3}$ | 0.4 | 0.5 | 0.6 | $0.\overline{6}$ | 0.75 | 0.8 |

Dec 16-10:53 AM

Nov 19-8:55 AM

Order the fractions and decimals from least to greatest.

$\frac{3}{4}, 0.8, \frac{7}{10}$ $\frac{7}{10}, \frac{3}{4}, 0.8$
 $.75, 0.70$

Order the fractions and decimals from least to greatest.

$\frac{1}{2}, 0.35, \frac{1}{4}$ $\frac{1}{4}, 0.35, \frac{1}{2}$
 $0.50, 0.25$

Write each decimal as a fraction or mixed number.

- 0.24
- 6.75

Write each fraction or mixed number as a decimal.

- $2\frac{3}{5}$
- $\frac{7}{8}$

Dec 16-10:53 AM

Nov 19-8:53 AM