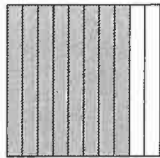


Tenths and Hundredths

Fractions can also be named using decimals.



8 out of 10 sections are shaded.

The fraction is $\frac{8}{10}$.

The word name is eight tenths.

The decimal is 0.8.

Remember: the first place to the right of the decimal is tenths.

Write $\frac{2}{5}$ as a decimal.

Sometimes a fraction can be rewritten as an equivalent fraction that has a denominator of 10 or 100.

$$\frac{2}{5} = \frac{2 \times 2}{5 \times 2} = \frac{4}{10}$$

$$\frac{4}{10} = 0.4$$

$$\text{So, } \frac{2}{5} = 0.4.$$

Write $3\frac{3}{5}$ as a decimal.

First write the whole number.

3

Write the fraction as an equivalent fraction with a denominator of 10.

Change the fraction to a decimal.

$$\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} = 0.6$$

Write the decimal next to the whole number

3.6

$$\text{So, } 3\frac{3}{5} = 3.6.$$

Write 0.07 as a fraction.

The word name for 0.07 is seven hundredths.

“Seven” is the numerator, and “hundredths” is the denominator.

$$\text{So, } 0.07 = \frac{7}{100}.$$

Remember: the second place to the right of the decimal is hundredths.

Write each fraction or mixed number as a decimal.

1. $\frac{1}{5}$ 0.2

2. $\frac{6}{25}$ 0.24

3. $2\frac{3}{4}$ 2.75

4. $3\frac{9}{10}$ 3.9

Write each decimal as a fraction or mixed number.

5. 1.25 $1\frac{25}{100}$

6. 3.29 $3\frac{29}{100}$

7. 0.65 $\frac{65}{100}$

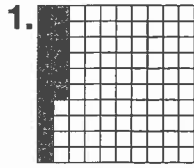
8. 5.6 $5\frac{6}{10}$

9. **Number Sense** Dan says $\frac{3}{5}$ is the same as 3.5. Is he correct? Explain.

No. 3.5 is the same as $3\frac{5}{10}$ or $3\frac{1}{2}$; $\frac{3}{5}$ is the same as 0.6.

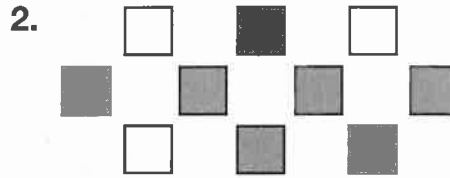
Tenths and Hundredths

Write a decimal and fraction for the shaded portion of each model.



0.16;

$\frac{4}{25}$



0.7;

$\frac{7}{10}$

Write each decimal as either a fraction or a mixed number.

3. 0.6 $\frac{6}{10}$

4. 0.73 $\frac{73}{100}$

5. 6.9 $6\frac{9}{10}$

6. 8.57 $8\frac{57}{100}$

Write each fraction or mixed number as a decimal.

7. $\frac{7}{10}$ 0.7

8. $\frac{33}{100}$ 0.33

9. $7\frac{2}{10}$ 7.2

10. $3\frac{9}{100}$ 3.09

Use division to change each fraction to a decimal.

11. $\frac{4}{5}$ 0.8

12. $\frac{12}{25}$ 0.48

13. $\frac{1}{50}$ 0.02

14. $\frac{11}{20}$ 0.55

15. **Strategy Practice** When you convert 0.63 to a fraction, which of the following could be the first step of the process?

- A Since there are 63 hundredths, multiply 0.63 and 100.
- B Since there are 63 tenths, divide 0.63 by 10.
- C Since there are 63 tenths, place 63 over 10.
- D Since there are 63 hundredths, place 63 over 100.

Name _____

Enrichment

9-8

Dual Answers

You have volunteered to help raise money for your school's photography club by participating in various events. Read the description of each fund-raising event. Write the answer as both a fraction and a decimal.

Number Sense

1. You sold $\frac{4}{5}$ of the nature photographs at the silent auction. What portion of the photographs were unsold?

$\frac{1}{5}; 0.2$

2. After an hour at the snack table, you sold $\frac{1}{4}$ of the strawberry tarts. What portion of the tarts remain?

$\frac{3}{4}; 0.75$

3. Of the 100 donated gift baskets, you raffled off 97. What fraction of the baskets are left?

$\frac{3}{100}; 0.03$

4. The local camera shop contributed 10 antique cameras. The next day, you accepted bids for 4 of the cameras. What fraction of the total number of cameras is left to bid on?

$\frac{6}{10}; 0.6$

5. Students in the photography club agreed to take photos of people's pets. You started with 100 tickets and sold 83 the first week. What portion of the tickets remain?

$\frac{17}{100}; 0.17$

Enrichment 9-8