

# Fractions and Decimals

Name \_\_\_\_\_

## Key Concept and Vocabulary

"Saying" the decimal helps.



decimal

Say it.

fraction

Simplify.

$$0.4 = \text{Four-tenths} = \frac{4}{10} = \frac{2}{5}$$

Four-tenths is 4 over 10.



## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

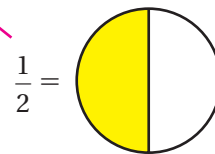
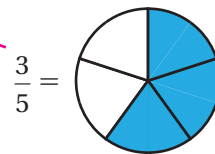
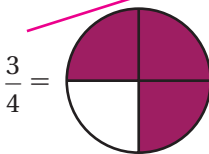
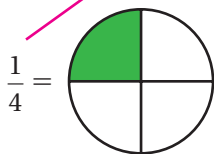
Draw a line from the decimal to its fraction.

1. 0.6

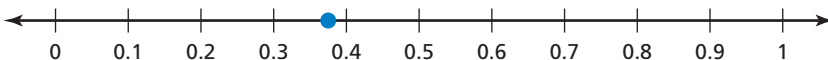
2. 0.25

3. 0.5

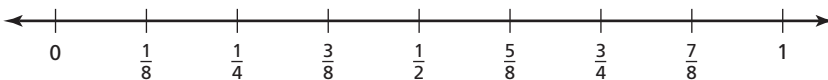
4. 0.75



5. **NUMBER LINE** Write 0.375 as a simplified fraction.



$$0.375 = \frac{375}{1000} = \frac{3}{8}$$



6. **CARPENTRY** Carpenters use a fraction-decimal chart to help change fractions to decimals.

Use the chart to write the fraction  $\frac{3}{16}$  as a decimal.

$$\frac{3}{16} = 0.1875$$

### Common Fraction-Decimal Conversion

$\frac{1}{16} = 0.0625$	$\frac{5}{16} = 0.3125$	$\frac{9}{16} = 0.5625$	$\frac{13}{16} = 0.8125$
$\frac{1}{8} = 0.125$	$\frac{3}{8} = 0.375$	$\frac{5}{8} = 0.625$	$\frac{7}{8} = 0.875$
$\frac{3}{16} = 0.1875$	$\frac{7}{16} = 0.4375$	$\frac{11}{16} = 0.6875$	$\frac{15}{16} = 0.9375$
$\frac{1}{4} = 0.25$	$\frac{1}{2} = 0.5$	$\frac{3}{4} = 0.75$	

