

Understand it!
Fractions and decimals can be used to name the same amounts.

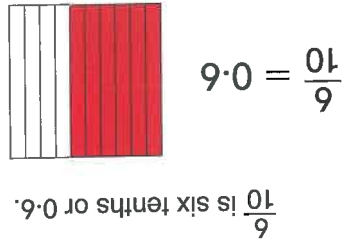
Writing Fractions and Decimals

How can you write a fraction as a decimal and a decimal as a fraction?

On Kelsey Street, six out of 10 homes have swings in their backyards. Write $\frac{6}{10}$ as a decimal.



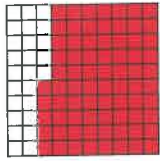
So 0.6 of the houses have swings.



Write $\frac{10}{6}$ as a decimal.

$\frac{10}{6}$ is six tenths or 0.6.

So, $\frac{100}{75}$, or $\frac{4}{3}$, of the houses are two-storey homes.



$$0.75 = \frac{75}{100}$$

Write 0.75 as a fraction.

In Rolling Hills, 0.75 of the houses are two-storey homes.

Guided Practice

Write the fraction and the decimal for each of these shaded grids.

1		fraction	<input type="text"/>	decimal	<input type="text"/>
2		fraction	<input type="text"/>	decimal	<input type="text"/>
3		fraction	<input type="text"/>	decimal	<input type="text"/>
4		fraction	<input type="text"/>	decimal	<input type="text"/>

Shade the following fractions or decimals on each grid.

5		$\frac{7}{10}$
6		0.7
7		$\frac{50}{100}$
8		0.5

Reasoning

9 Explain why the fraction $\frac{10}{4}$ is not written in decimal form as 0.04.

Problem Solving

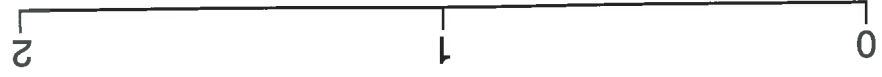


10 Draw a line to match the fractions and decimals.

Independent Practice

$\frac{1}{10}$	0.33
$\frac{1}{10}$	$\frac{2}{10}$
0.25	0.10
0.5	0.5
$\frac{33}{100}$	$\frac{100}{100}$

11a Place these fractions and decimals in order on the number line.



b Explain why you chose to place 1.75 in this position.

$1\frac{1}{2}$, 0.5, $\frac{3}{4}$, 1.75