## Labsheet 3.3A

## Fractions on a Grid

Fraction	Decimal	Representation on a Grid	
<u>5</u> 10	0.5		
<u>20</u> 100	0.20		
	0.02		
250 1000			

What are some fractions equivalent to  $^{3}/_{10}$ ?

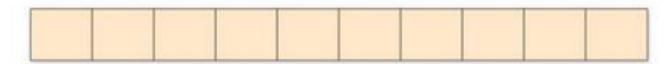
What are some decimals equivalent to  $^3/_{10}$ ?

Do 0.20, 0.02, and 0.2 all represent the same number? \_\_\_\_\_ Explain.

Decimals give people a way to write fractions with denominators of 10 or 100 or 1,000 or 10,000 or even 100,000,000,000, as in the table below. These denominators are different forms of **base ten numeration**.

Fraction	Denominator as a Power of 10	Decimal
10	1/101	0. 1
100	1 10 <sup>2</sup>	0.01
1,000	1 10 <sup>3</sup>	0.001
10,000	1 10 <sup>4</sup>	0.0001
100,000	1 10 <sup>5</sup>	0. 00001
1,000,000	1 10 <sup>6</sup>	0.000001
	1	
1	?	?

In Investigation 1, you folded fraction strips. One of the strips you made was a tenths strip, similar to the one shown below.



How could you mark this tenths strip to get a hundredths strip?

How would you label each part of this new fraction strip?

A tenths grid is also divided into 10 equal parts. You can further divide a tenths grid by drawing horizontal lines to make 100 parts. This is called a hundredths grid.

