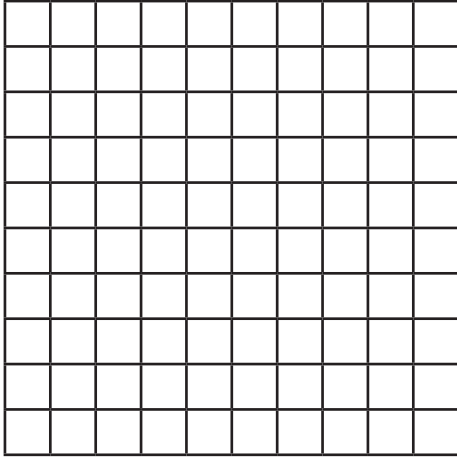


Investigating Decimal Equivalents for Halves and Quarters

1. What is $\frac{1}{2}$ written as a decimal?



Colour in half of the grid.

How many hundredths have you coloured in? $\frac{\square}{100}$

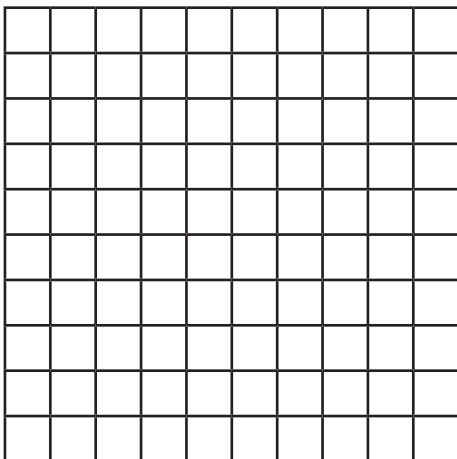
How many tenths have you coloured in? $\frac{\square}{10}$

Use a place value grid to write the fractions as decimals.

$$\frac{\square}{100} = \square \quad \frac{\square}{10} = \square$$

Therefore, $\frac{1}{2}$ written as a decimal = \square

2. What is $\frac{1}{4}$ written as a decimal?



Colour in quarter of the grid.

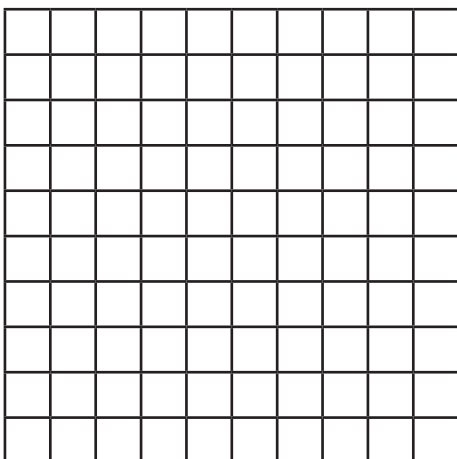
How many hundredths have you coloured in? $\frac{\square}{100}$

Use a place value grid to write the fractions as decimals.

$$\frac{\square}{100} = \square$$

Therefore, $\frac{1}{4}$ written as a decimal = \square

3. What is $\frac{3}{4}$ written as a decimal?



Colour in three quarters of the grid.

How many hundredths have you coloured in? $\frac{\square}{100}$

Use a place value grid to write the fractions as decimals.

$$\frac{\square}{100} = \square$$

Therefore, $\frac{3}{4}$ written as a decimal = \square

Investigating Decimal Equivalents for Halves and Quarters

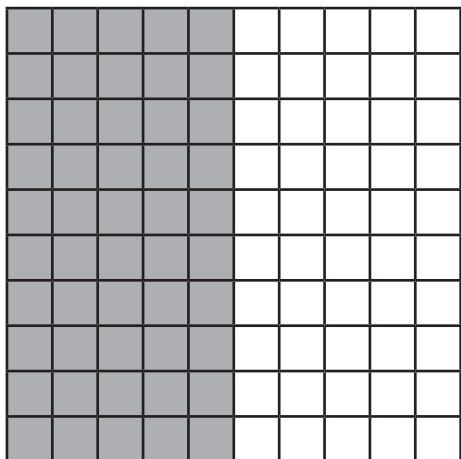
I know $\frac{1}{2} = \square$ because

I know $\frac{1}{4} = \square$ because

I know $\frac{3}{4} = \square$ because

Investigating Decimal Equivalents for Halves and Quarters - Answers

1. What is $\frac{1}{2}$ written as a decimal?



Colour in half of the grid.

How many hundredths have you coloured in? $\frac{50}{100}$

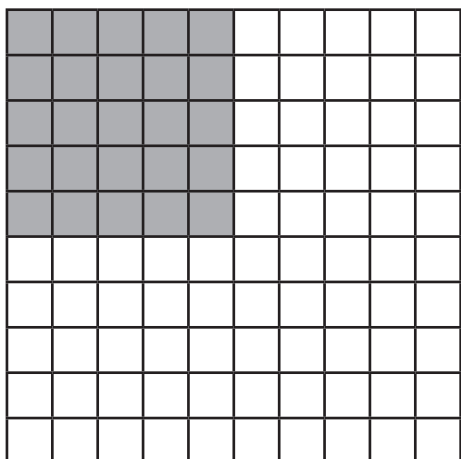
How many tenths have you coloured in? $\frac{5}{10}$

Use a place value grid to write the fractions as decimals.

$$\frac{50}{100} = 0.5 \quad \frac{5}{10} = 0.5$$

Therefore, $\frac{1}{2}$ written as a decimal = 0.5

2. What is $\frac{1}{4}$ written as a decimal?



Colour in quarter of the grid.

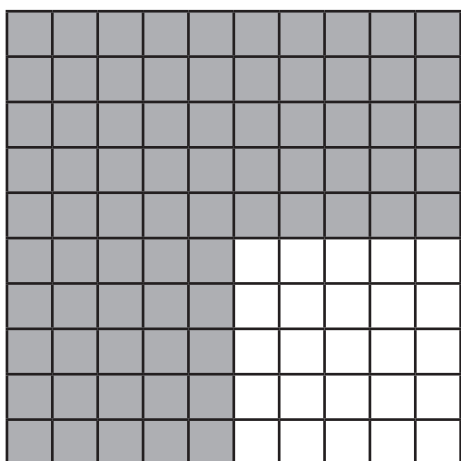
How many hundredths have you coloured in? $\frac{25}{100}$

Use a place value grid to write the fractions as decimals.

$$\frac{25}{100} = 0.25$$

Therefore, $\frac{1}{4}$ written as a decimal = 0.25

3. What is $\frac{3}{4}$ written as a decimal?



Colour in three quarters of the grid.

How many hundredths have you coloured in? $\frac{75}{100}$

Use a place value grid to write the fractions as decimals.

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

Therefore, $\frac{3}{4}$ written as a decimal = 0.75

Investigating Decimal Equivalents for Halves and Quarters - **Answers**

Therefore, $\frac{1}{2}$ written as a decimal = $\boxed{0.5}$ because

(accept any suitable explanation) $\frac{1}{2}$ is equivalent to $\frac{5}{10}$ and this represents 0 ones and 5 tenths.

Therefore, $\frac{1}{4}$ written as a decimal = $\boxed{0.25}$ because

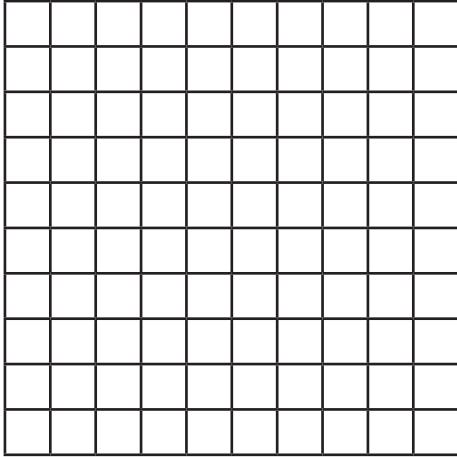
(accept any suitable explanation) $\frac{1}{4}$ is equivalent to $\frac{25}{100}$ and this represents 0 ones, 2 tenths and 5 hundredths.

Therefore, $\frac{3}{4}$ written as a decimal = $\boxed{0.75}$ because

(accept any suitable explanation) $\frac{3}{4}$ is equivalent to $\frac{75}{100}$ and this represents 0 ones, 7 tenths and 5 hundredths.

Investigating Decimal Equivalents for Halves and Quarters

1. What is $\frac{1}{2}$ written as a decimal?



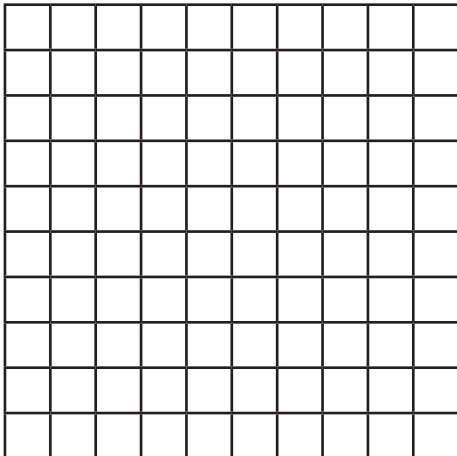
Colour in half of the grid.

How many hundredths have you coloured in?

Therefore, $\frac{1}{2}$ written as a decimal =

I know $\frac{1}{2} =$ because

2. What is $\frac{1}{4}$ written as a decimal?



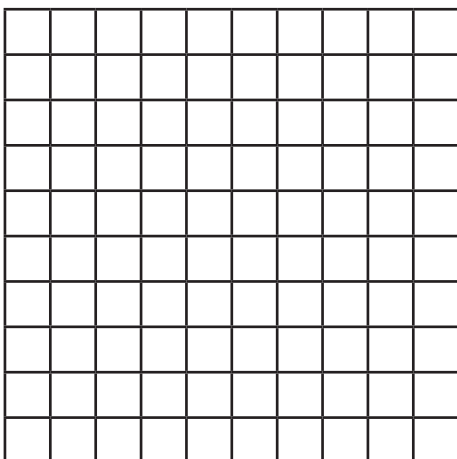
Colour in a quarter of the grid.

How many hundredths have you coloured in?

Therefore, $\frac{1}{4}$ written as a decimal =

I know $\frac{1}{4} =$ because

3. What is $\frac{3}{4}$ written as a decimal?



Colour in three quarters of the grid.

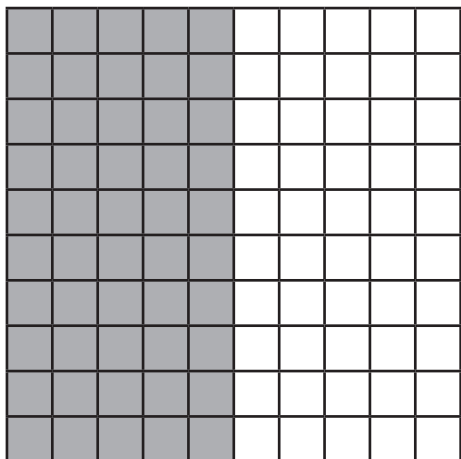
How many hundredths have you coloured in?

Therefore, $\frac{3}{4}$ written as a decimal =

I know $\frac{3}{4} =$ because

Investigating Decimal Equivalents for Halves and Quarters - Answers

1. What is $\frac{1}{2}$ written as a decimal?



Colour in half of the grid.

How many hundredths have you coloured in?

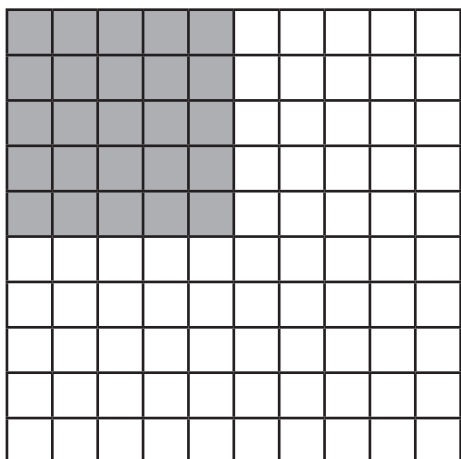
$$\frac{50}{100} = \frac{5}{10} = 0.5$$

Therefore, $\frac{1}{2}$ written as a decimal = 0.5

I know $\frac{1}{2} = 0.5$ because

(accept any suitable explanation) $\frac{1}{2}$ is equivalent to $\frac{5}{10}$ and this represents 0 ones and 5 tenths.

2. What is $\frac{1}{4}$ written as a decimal?



Colour in a quarter of the grid.

How many hundredths have you coloured in?

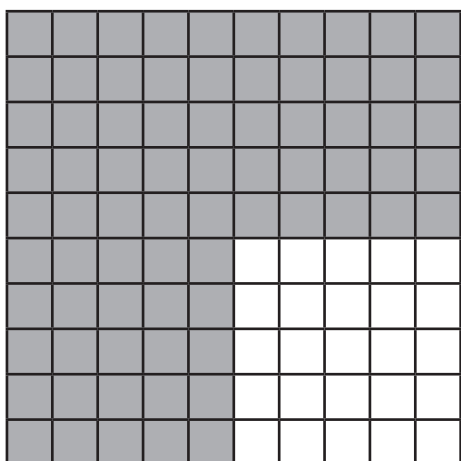
$$\frac{25}{100} = 0.25$$

Therefore, $\frac{1}{4}$ written as a decimal = 0.25

I know $\frac{1}{4} = 0.25$ because

(accept any suitable explanation) $\frac{1}{4}$ is equivalent to $\frac{25}{100}$ and this represents 0 ones, 2 tenths and 5 hundredths.

3. What is $\frac{3}{4}$ written as a decimal?



Colour in three quarters of the grid.

How many hundredths have you coloured in?

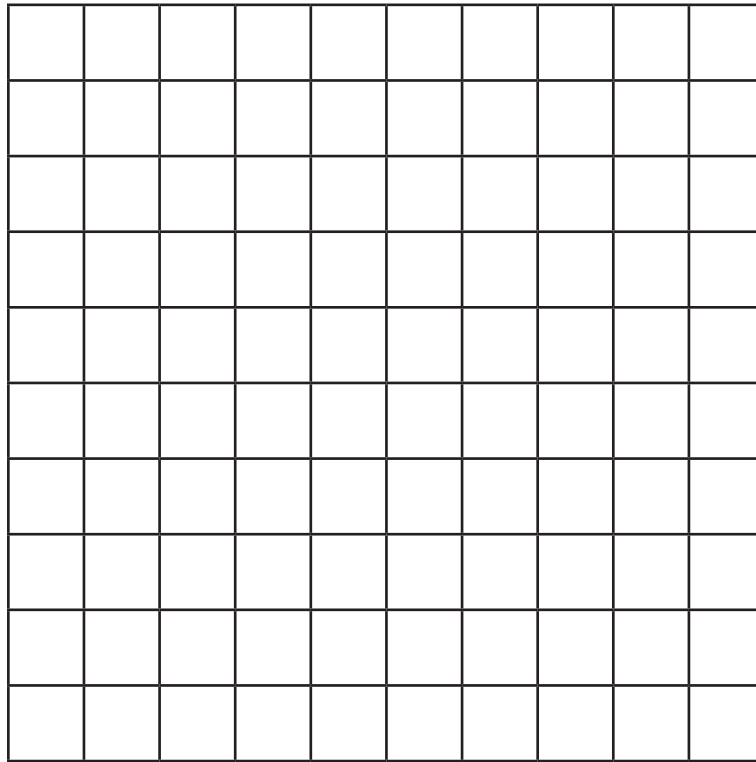
$$\frac{75}{100} = 0.75$$

Therefore, $\frac{3}{4}$ written as a decimal = 0.75

I know $\frac{3}{4} = 0.75$ because

(accept any suitable explanation) $\frac{3}{4}$ is equivalent to $\frac{75}{100}$ and this represents 0 ones, 7 tenths and 5 hundredths.

Investigating Decimal Equivalents for Halves and Quarters



Use the hundredths grid to help you to identify the equivalent decimal numbers for these fractions. Explain how you worked it out.

1. What is $\frac{1}{2}$ written as a decimal?

I know $\frac{1}{2} = \square$ because

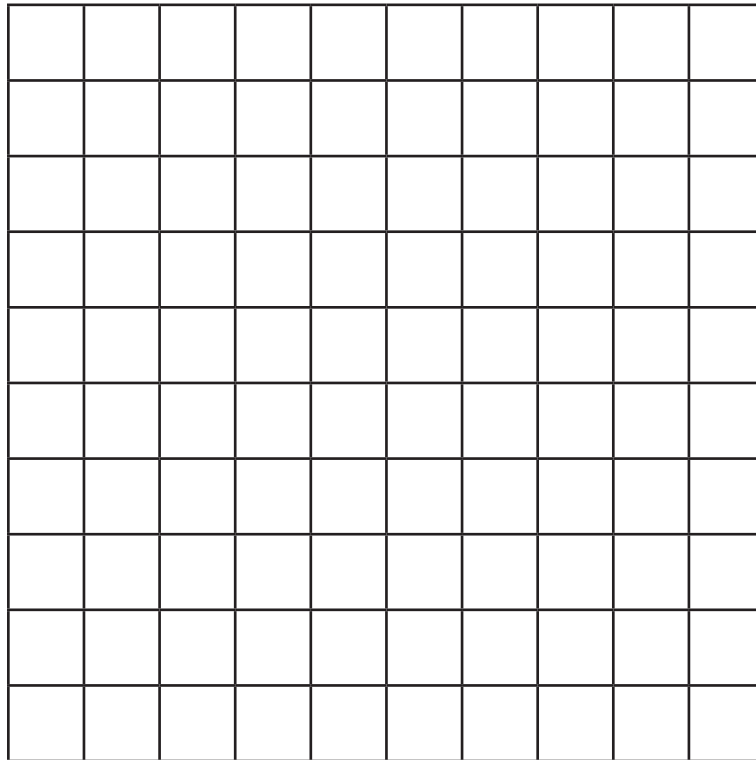
2. What is $\frac{1}{4}$ written as a decimal?

I know $\frac{1}{4} = \square$ because

3. What is $\frac{3}{4}$ written as a decimal?

I know $\frac{3}{4} = \square$ because

Investigating Decimal Equivalents for Halves and Quarters - Answers



Use the hundredths grid to help you to identify the equivalent decimal numbers for these fractions. Explain how you worked it out.

1. What is $\frac{1}{2}$ written as a decimal?

I know $\frac{1}{2} = \boxed{0.5}$ because

(accept any suitable explanation) $\frac{1}{2}$ is equivalent to $\frac{5}{10}$ and this represents 0 ones and 5 tenths.

2. What is $\frac{1}{4}$ written as a decimal?

I know $\frac{1}{4} = \boxed{0.25}$ because

(accept any suitable explanation) $\frac{1}{4}$ is equivalent to $\frac{25}{100}$ and this represents 0 ones, 2 tenths and 5 hundredths.

3. What is $\frac{3}{4}$ written as a decimal?

I know $\frac{3}{4} = \boxed{0.75}$ because

(accept any suitable explanation) $\frac{3}{4}$ is equivalent to $\frac{75}{100}$ and this represents 0 ones, 7 tenths and 5 hundredths.