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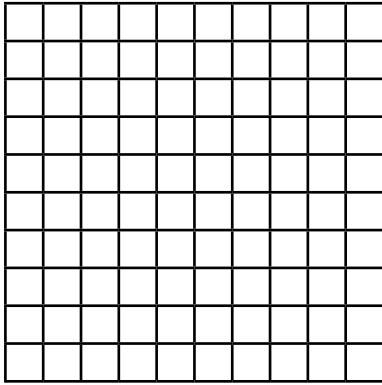
1. What is $\frac{1}{2}$ written as a decimal?

Colour in half of the grid.
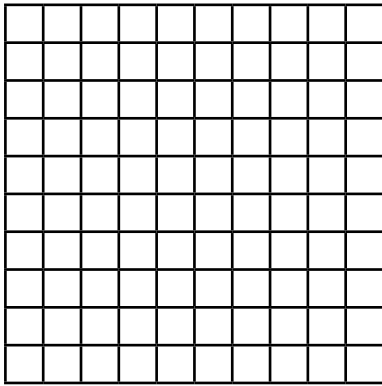
How many hundredths have you coloured in? $\frac{\boxed{}}{100}$

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

Use a place value grid to write the fractions as decimals. $\frac{\boxed{}}{100} = \boxed{}$ $\frac{\boxed{}}{10} = \boxed{}$

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

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

Colour in a quarter of the grid.

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

Use a place value grid to write the fractions as decimals. $\frac{\boxed{}}{100} = \boxed{}$

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

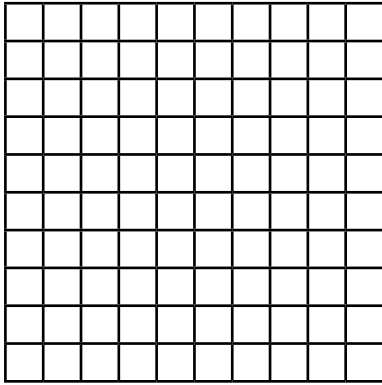3. What is $\frac{3}{4}$ written as a decimal?

Colour in three quarters of the grid.

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

Use a place value grid to write the fractions as decimals. $\frac{\boxed{}}{100} = \boxed{}$

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

Explain what you have found out.

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

_____

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

_____

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

Investigate It Answers

1. What is $\frac{1}{2}$ written as a decimal?
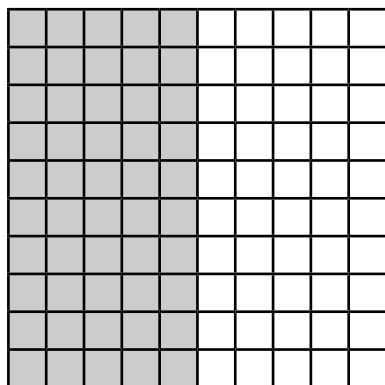
Colour in half of the grid.

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

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

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

$\dfrac{\boxed{50}}{100} = \boxed{0.5}$ $\dfrac{\boxed{5}}{10} = \boxed{0.5}$

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

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

Colour in a quarter of the grid.

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

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

$\dfrac{\boxed{25}}{100} = \boxed{0.25}$

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

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

Colour in three quarters of the grid.

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

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

$\dfrac{\boxed{75}}{100} = \boxed{0.75}$

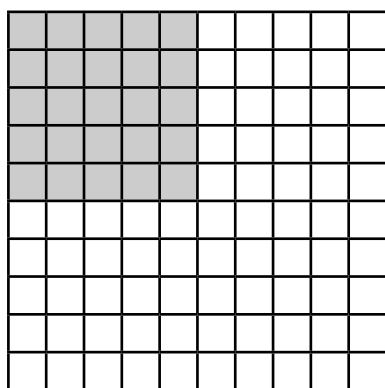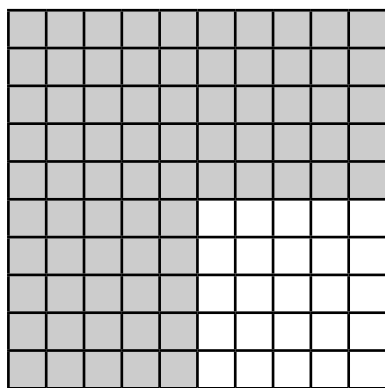Therefore, $\frac{3}{4}$ written as a decimal = $\boxed{0.75}$

Explain what you have found out.

I know that $\frac{1}{2}$ = $\boxed{0.5}$ because **answers should refer to $\frac{1}{2}$ being equivalent to $\frac{5}{10}$ and relate this to 0 units and 5 tenths.**

I know that $\frac{1}{4}$ = $\boxed{0.25}$ because **answers should refer to $\frac{1}{4}$ being equivalent to $\frac{25}{100}$ and relate this to 0 units, 2 tenths and 5 hundredths.**

I know that $\frac{3}{4}$ = $\boxed{0.75}$ because **answers should refer to $\frac{3}{4}$ being equivalent to $\frac{75}{100}$ and relate this to 0 units, 7 tenths and 5 hundredths.**

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

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

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

_____

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

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

_____

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

I know that $\frac{3}{4} = \boxed{}$ because _____
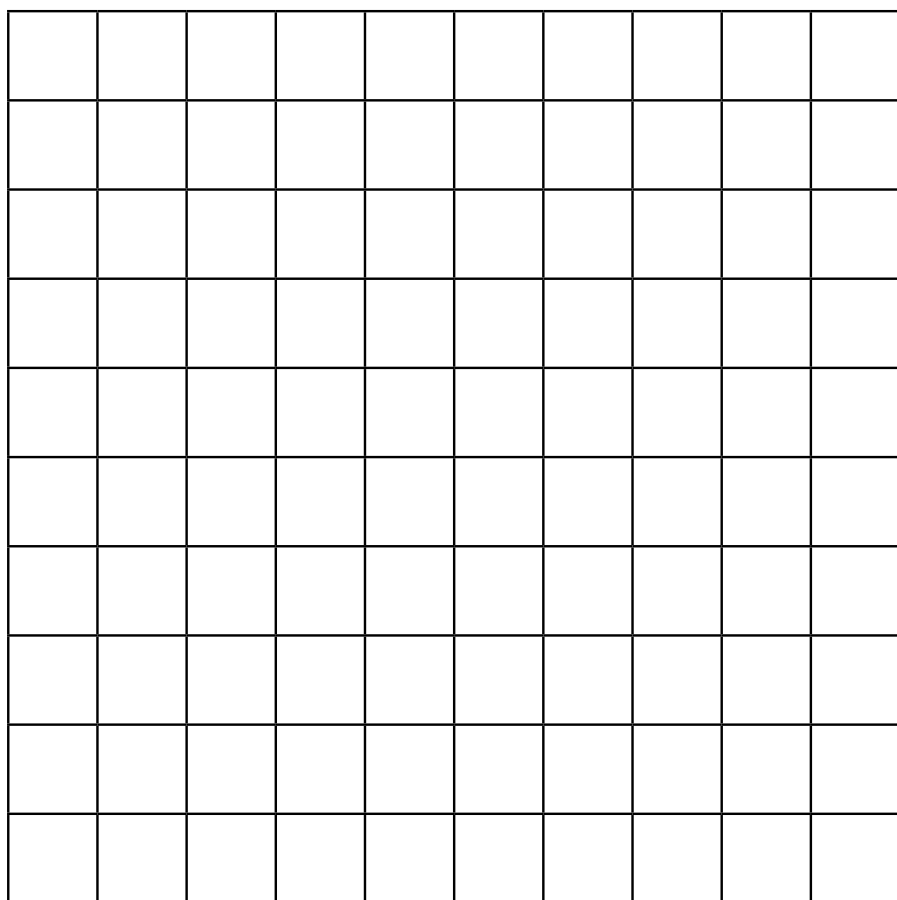
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Investigate It Answers

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

1. What is $\frac{1}{2}$ written as a decimal? **50 squares of the hundreds grid coloured in. Calculations or jottings which show that $\frac{1}{2}$ = $\frac{50}{100}$ = $\frac{5}{10}$ = 0.5.**

I know that $\frac{1}{2}$ = ☐ **0.5** because **answers should refer to $\frac{1}{2}$ being equivalent to $\frac{5}{10}$ and relate this to 0 units and 5 tenths.**

2. What is $\frac{1}{4}$ written as a decimal? **25 squares of the hundreds grid coloured in. Calculations or jottings which show that $\frac{1}{4}$ = $\frac{25}{100}$ = 0.25.**

I know that $\frac{1}{4}$ = ☐ **0.25** because **answers should refer to $\frac{1}{4}$ being equivalent to $\frac{25}{100}$ and relate this to 0 units, 2 tenths and 5 hundredths.**

3. What is $\frac{3}{4}$ written as a decimal? **75 squares of the hundreds grid coloured in. Calculations or jottings which show that $\frac{3}{4}$ = $\frac{75}{100}$ = 0.75.**

I know that $\frac{3}{4}$ = ☐ **0.75** because **answers should refer to $\frac{3}{4}$ being equivalent to $\frac{75}{100}$ and relate this to 0 units, 7 tenths and 5 hundredths.**