## Understanding percentage as a fraction and decimal

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## New learning: percent

What is $50 \%$ as a decimal?

$$
\frac{1}{2}=\frac{}{100}=\%
$$

## New learning: percent

What is $25 \%$ as a decimal?
What is $20 \%$ as a decimal?
$-000000000000000000000000-0000000000000000000000000-0000000000000000000000000-00000000000000000000000000-$

$$
\frac{1}{4}=\frac{}{100}=\quad \%
$$

$-00000000000000000000-00000000000000000000-0000000000000000000-00000000000000000000-0000000000000000000-$

$$
\frac{1}{5}=\frac{}{100}=\%
$$

## New learning: percent

What percentages, fractions and decimals can you represent with your hundred grid?


One hundred equal parts


## Develop learning: percent

How many different ways can you explain that the one fifth of the shape is coloured red?


## Develop learning: percent

These are the main fractions, decimals and percent:

| $100 \%$ | $\mathbf{1}$ | $\mathbf{1}$ |
| :--- | :--- | :--- |
| $\mathbf{5 0 \%}$ | $\mathbf{0 . 5}$ | $1 / 2$ |
| $25 \%$ | 0.25 | $1 / 4$ |
| $75 \%$ | 0.75 | $3 / 4$ |
| $\mathbf{2 0 \%}$ | $\mathbf{0 . 2}$ | $1 / 5$ |
| $40 \%$ | 0.4 | $1 / 5$ |
| $60 \%$ | 0.6 | $3 / 5$ |
| $80 \%$ | 0.8 | $4 / 5$ |

They can be used to calculate too:

| $2 / 5+50 \%$ | $=$ |
| :--- | :--- |
| $0.25+3 / 5$ | $=$ |

## Independent task

Complete the calculations:

| 100\% | - 0.25 |  |
| :---: | :---: | :---: |
| 1/2 | + 0.25 | = |
| 3/5 | + $1 / 4$ | = |
| 4/5 | - 10\% | $=$ |
| 2/5 | + $1 / 4$ | + 10\% |
| 0.5 | +1/5 |  |
| 100\% | +25\% |  |
| 1/4 | + $1 / 4$ | - 0.5 |
| 40\% | + $3 / 5$ | - 0.25 |

