

## Aim

- Recognise the per cent symbol and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.


Percentages as Fractions and Decimals
Complete the statements.


$$
=64 \text { parts per } 100=64 \%=\frac{64}{\text { coloured in. }}=0.64
$$



$$
=8 \text { parts per } 100=8 \%=\frac{8}{100}=0.08
$$

Which is the odd one out? Why?

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True or false?

$$
\frac{42}{100}<0.8>14 \%
$$

True.

False.
30 parts per hundred $>4 \%>0.3$
$4 \%=0.04$ which is not greater than 0.3 so this is false.


True.

Which numbers fill the table to make it correct?

| FractionFraction with a <br> Denominator of 100 | Percentage | Decimal |
| :---: | :---: | :---: |
|  | 80 \% | 0.8 or 0.80 |
| $\begin{gathered} \times 2 \times \\ \frac{30}{50}=\frac{60}{100} \\ \times 2 \end{gathered}$ | 60 \% | 0.6 or 0.60 |
| $\begin{array}{r} \div 2 \\ \frac{80}{200}=\frac{40}{100} \\ \div 2 \end{array}$ | $40 \%$ | 0.4 or 0.40 |
| $\begin{array}{r} 130 \\ \frac{\div 2}{200}=\frac{65}{100} \\ \div 2 \end{array}$ | 65 \% | 0.65 |

Three children are describing a different percentage.
Give two possible percentages that each child could be describing.


Read each child's statement. Explain and correct any mistakes they have made.


There is between 0.2 and $30 \%$ of the 100 square coloured in.

If I coloured in another 0.9 of this 100 square it would be $100 \%$ coloured in.

The fraction of the 100 square coloured in is $\frac{10}{50}$.

Oscar

Oscar is incorrect.
The fraction of the square coloured in is $\frac{10}{100}$. This is equivalent to $\frac{5}{50}$ not $\frac{10}{50}$.
 of the squares coloured in.

Tao has driven 178 miles of a 200 mile journey.
Eva has driven 320 miles of a 400 mile journey.
James has driven 210 miles of a 300 mile journey.
Give each person's journey as a fraction, percentage and decimal.
Which person has completed the greatest proportion of their journey? Give the remainder of their journey as a decimal.

Tao: $\frac{178}{200}=\frac{89}{100}=89 \%=0.89$
Eva: $\frac{320}{400}=\frac{80}{100}=80 \%=0.8$

Tao has completed the greatest proportion of the journey. He has 0.11 of his journey remaining.

James: $\frac{210}{300}=\frac{70}{100}=70 \%=0.7$

## Percentages as Fractions and Decimals

Dive in by completing your own activity!


## Need Planning to Complement this Resource?

## National Curriculum Aim

Recognise the per cent symbol and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
For more planning resources to support this aim, click here.


Twinkl Planlt is our award-winning scheme of work with over 4000 resources.


