

## Aim

- Recognise and write decimal equivalents of any number of tenths or hundredths.

Complete this table:

| Represestation |
| :---: |
|  |


,

| Decimal | Fraction |
| :---: | :---: |
| 1.1 | $\frac{11}{10}$ |
| 1.2 | $\frac{12}{10}$ |
| 1.8 | $\frac{18}{10}$ |
| 1.6 | $\frac{16}{10}$ |

Tenths as Decimals
Write each of the following as a decimal and a fraction:

$0.5 \quad \frac{5}{10}$

$0.8 \quad \frac{8}{10}$

$0.3 \quad \frac{3}{10}$

Petra and Leo write this representation in the ways shown:
 the one whole as $\frac{1}{10}$ but it should have been $\frac{10}{10}$.
So it would be $\frac{10}{10}$ and $\frac{3}{10}$ which is $\frac{13}{10}$.
Leo is correct as the representation
shows one whole and three-tenths
Leo is correct as the representation
shows one whole and three-tenths (which is equal to 1.3).

Petra is incorrect. She has counted you explain what mistake they have made and what they should have written.

Petra is incorrect She has counted $\frac{1}{10}$ but it should

## $\square$ <br> -

Mandeep is converting decimals into fraction representations. This is her first conversion.


What mistake did she make?
The 1 whole is correct but 0.4 has been represented incorrectly. Mandeep has represented 0.4 as a whole divided into 4 equal parts. Instead, as 0.4 is equal to $\frac{4}{10}$, a whole should be divided into 10 equal parts with 4 parts shaded.

What should it look like?


In a centimetre (cm), there are 10 millimetres (mm). $1 \mathrm{~mm}=\frac{1}{10} \mathrm{~cm}$

Use this information to complete this table:

| Centimetres and <br> Millimetres | Millimetres | Fraction | Decimal |
| :---: | :---: | :---: | :---: |
| 1 cm 8 mm | 18 mm | $1 \frac{8}{10} \mathrm{~cm}\left(\frac{18}{10}\right)$ | 1.8 cm |
| 1 cm 3 mm | 13 mm | $1 \frac{3}{10} \mathrm{~cm}\left(\frac{13}{10}\right)$ | 1.3 cm |
| 0 cm 6 mm | 6 mm | $\frac{6}{10} \mathrm{~cm}$ | 1.6 cm |
| 1 cm 1 mm | 11 mm | $1 \frac{1}{10} \mathrm{~cm}\left(\frac{11}{10}\right)$ | 1.1 cm |

## Tenths as Decimals

Which representations are equal to this representation?
$\square$

Tick the correct representations:
$\square$



## 1


$\mathbb{\|} \|$

