

# Converting Decimal Tenths and Hundredths to Fractions

Converting decimal tenths and hundredths to fractions couldn't be easier - all you need is a place value chart! To convert from a decimal into a fraction, we write the number on the place value chart then **read the number off the place value chart**.

|              |             |   |               |
|--------------|-------------|---|---------------|
| <b>0.7 =</b> | <b>Ones</b> |   | <b>tenths</b> |
|              | <b>0</b>    | . | <b>7</b>      |

No ones and 7 tenths. So the fraction is...  $\frac{7}{10}$  !

A. Write these decimals into the place value chart. Read the place value and write the decimal as a fraction. The first question has been completed for you.

| Decimal          | Place Value Chart |   |        | How many tenths?          |
|------------------|-------------------|---|--------|---------------------------|
| 0.7              | Ones              |   | tenths | 7 tenths = $\frac{7}{10}$ |
|                  | 0                 | . | 7      |                           |
| 0.3              | Ones              |   | tenths |                           |
|                  |                   | . |        |                           |
| zero point two   | Ones              |   | tenths |                           |
|                  |                   | . |        |                           |
| 0.4              | Ones              |   | tenths |                           |
|                  |                   | . |        |                           |
| 0.1              | Ones              |   | tenths |                           |
|                  |                   | . |        |                           |
| 0.9              | Ones              |   | tenths |                           |
|                  |                   | . |        |                           |
| zero point eight | Ones              |   | tenths |                           |
|                  |                   | . |        |                           |

Working with hundredths is similar except we need to include the tenths too. There are 10 hundredths in a tenth.

|          |   |          |                   |
|----------|---|----------|-------------------|
| <b>0</b> |   | <b>t</b> | <b>hundredths</b> |
| <b>0</b> | . | <b>7</b> | <b>3</b>          |

We have 73 hundredths - therefore  $\frac{73}{100}$

B. Complete the table.

| Decimal               | Place Value Chart |   |        |            | How many hundredths?             |
|-----------------------|-------------------|---|--------|------------|----------------------------------|
|                       | Ones              | . | tenths | hundredths |                                  |
| 0.73                  | 0                 | . | 7      | 3          | 73 hundredths = $\frac{73}{100}$ |
|                       |                   |   |        |            |                                  |
| 0.20                  | 0                 | . |        |            |                                  |
|                       |                   |   |        |            |                                  |
| zero point four six   | 0                 | . |        |            |                                  |
|                       |                   |   |        |            |                                  |
| nought point nought 4 | 0                 | . |        |            |                                  |
|                       |                   |   |        |            |                                  |
| 0.42                  | 0                 | . |        |            |                                  |
|                       |                   |   |        |            |                                  |
| 0.66                  | 0                 | . |        |            |                                  |
|                       |                   |   |        |            |                                  |
| 0.99                  | 0                 | . |        |            |                                  |
|                       |                   |   |        |            |                                  |

C. What do you think this decimal is as a fraction?

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | . | 0 | 0 | 7 |
|---|---|---|---|---|

# Converting Decimal Tenths and Hundredths to Fractions

## Answers

A. Write these decimals into the place value chart. Read the place value and write the decimal as a fraction. The first question has been completed for you.

| Decimal          | Place Value Chart |   |        | How many tenths?                            |
|------------------|-------------------|---|--------|---|
| 0.7              | Ones              |   | tenths | <b>7 tenths = <math>\frac{7}{10}</math></b> |
|                  | 0                 | . | 7      |   |
| 0.3              | Ones              |   | tenths | <b>3 tenths = <math>\frac{3}{10}</math></b> |
|                  |                   | . |        |   |
| zero point two   | Ones              |   | tenths | <b>2 tenths = <math>\frac{2}{10}</math></b> |
|                  |                   | . |        |   |
| 0.4              | Ones              |   | tenths | <b>4 tenths = <math>\frac{4}{10}</math></b> |
|                  |                   | . |        |   |
| 0.1              | Ones              |   | tenths | <b>1 tenth = <math>\frac{1}{10}</math></b>  |
|                  |                   | . |        |   |
| 0.9              | Ones              |   | tenths | <b>9 tenths = <math>\frac{9}{10}</math></b> |
|                  |                   | . |        |   |
| zero point eight | Ones              |   | tenths | <b>8 tenths = <math>\frac{8}{10}</math></b> |
|                  |                   | . |        |   |

B. Complete the table.

| Decimal               | Place Value Chart |   |        |            | How many hundredths?   |
|-----------------------|-------------------|---|--------|------------|--|
|                       | Ones              | . | tenths | hundredths |  |
| 0.73                  | 0                 | . | 7      | 3          | <b>73 hundredths = <math>\frac{73}{100}</math></b>                               |
| 0.20                  | 0                 | . |        |            | <b>20 hundredths = <math>\frac{20}{100}</math> or <math>\frac{20}{10}</math></b> |
| zero point four six   | 0                 | . |        |            | <b>46 hundredths = <math>\frac{46}{100}</math></b>                               |
| nought point nought 4 | 0                 | . |        |            | <b>4 hundredths = <math>\frac{4}{100}</math></b>                                 |
| 0.42                  | 0                 | . |        |            | <b>42 hundredths = <math>\frac{42}{100}</math></b>                               |
| 0.66                  | 0                 | . |        |            | <b>66 hundredths = <math>\frac{66}{100}</math></b>                               |
| 0.99                  | 0                 | . |        |            | <b>99 hundredths = <math>\frac{99}{100}</math></b>                               |

C. What do you think this decimal is as a fraction?

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | . | 0 | 0 | 7 |
|---|---|---|---|---|

**7 thousandths =  $\frac{7}{1000}$**