

Converting Decimal Tenths and Hundredths to Fractions

Converting decimals 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**.

| | | | | |
|------|------|---|--------|--|
| 0.7= | Ones | | tenths | No ones and 7 tenths. So the fraction is... $\frac{7}{10}$! |
| | 0 | . | 7 | |

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.

| | | | | |
|---|---|---|------------|--|
| O | | t | hundredths | We have 73 hundredths - therefore $\frac{73}{100}$ |
| 0 | . | 7 | 3 | |

B. Complete the table.

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

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

| | | | | |
|---|---|---|---|----|
| 0 | | t | h | th |
| 0 | . | 0 | 0 | 7 |

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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 | 7 tenths = $\frac{7}{10}$ |
| | 0 | . | 7 | |
| 0.3 | Ones | | tenths | 3 tenths = $\frac{3}{10}$ |
| | | . | | |
| zero point two | Ones | | tenths | 2 tenths = $\frac{2}{10}$ |
| | | . | | |
| 0.4 | Ones | | tenths | 4 tenths = $\frac{4}{10}$ |
| | | . | | |
| 0.1 | Ones | | tenths | 1 tenth = $\frac{1}{10}$ |
| | | . | | |
| 0.9 | Ones | | tenths | 9 tenths = $\frac{9}{10}$ |
| | | . | | |
| zero point eight | Ones | | tenths | 8 tenths = $\frac{8}{10}$ |
| | | . | | |

B. Complete the table.

| Decimal | Place Value Chart | | | | How many hundredths? |
|-----------------------|-------------------|---|--------|------------|---|
| 0.73 | Ones | | tenths | hundredths | 73 hundredths = $\frac{73}{100}$ |
| | 0 | . | 7 | 3 | |
| 0.20 | Ones | | tenths | hundredths | 20 hundredths = $\frac{20}{100}$ or $\frac{2}{10}$ |
| | 0 | . | | | |
| zero point four six | Ones | | tenths | hundredths | 46 hundredths = $\frac{46}{100}$ |
| | 0 | . | | | |
| nought point nought 4 | Ones | | tenths | hundredths | 4 hundredths = $\frac{4}{100}$ |
| | 0 | . | | | |
| 0.42 | Ones | | tenths | hundredths | 42 hundredths = $\frac{42}{100}$ |
| | 0 | . | | | |
| 0.66 | Ones | | tenths | hundredths | 66 hundredths = $\frac{66}{100}$ |
| | 0 | . | | | |
| 0.99 | Ones | | tenths | hundredths | 99 hundredths = $\frac{99}{100}$ |
| | 0 | . | | | |

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

| | | | | |
|---|---|---|---|----|
| 0 | | t | h | th |
| 0 | . | 0 | 0 | 7 |

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