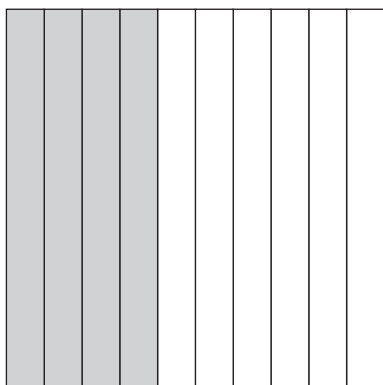# Unit 6 : Decimals

Friendly Notes

Tenths

When we divide one whole into 10 equal parts,
each part is $\frac{1}{10}$ or **0.1**.

0.1 is a **decimal**. It stands for **1 tenth**.
The dot in a decimal is called a **decimal point**. The decimal point separates the whole from the fractional part.
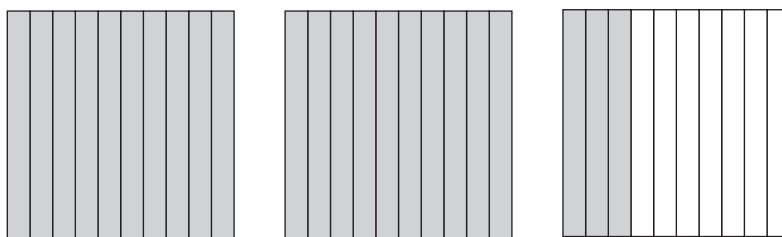
1. Write $\frac{4}{10}$ as a decimal.

0.4 is read as 'zero point four' or 'four tenths'.

$$\frac{4}{10} = 0.4$$

2. Write $2\frac{3}{10}$ as a decimal.
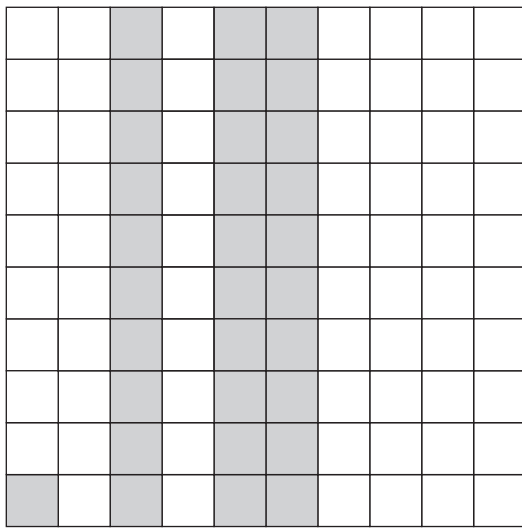

$$2\frac{3}{10} = 2.3$$

Hundredths

When we divide one whole into 100 equal parts, each part
is $\frac{1}{100}$ or **0.01**.
0.01 stands for **1 hundredth**.
0.01 has two decimal places.

$$\frac{1}{100} = 0.01$$

$$\frac{10}{100} = 0.10$$

$$\frac{20}{100} = 0.20$$

$\frac{1}{100}$ $\frac{10}{100}$ $\frac{20}{100}$

We read 0.01 as
'zero point zero one' or
'one hundredth'.
We read 0.10 as
'zero point one zero' or
'one tenth' and 0.20 as
'zero point two zero' or
'two tenths'.

1. Write $2\frac{31}{100}$ as a decimal.

$$2\frac{31}{100} = 2.31$$

$$2\frac{31}{100} = 2 + \frac{31}{100}$$
$$= 2 + 0.31$$
$$= 2.31$$

Thousandths

When we divide a whole into 1,000 equal parts, each part is
$\frac{1}{1,000}$ or **0.001**.
0.001 stands for **one thousandth**.
0.001 has three decimal places.

1. Write each of the following as a decimal.

    (a) 5 ones 3 thousandths
    $= 5.003$

    (b) 8 tens 6 ones 5 tenths 2 thousandths
    $= 86.502$

    (c) 4 tens 8 tenths 2 hundredths 9 thousandths
    $= 40.829$

    We read 40.829 as 'forty point eight two nine' or 'forty and eight hundred twenty-nine thousandths'.

Primary Mathematics (Common Core Edition) Extra Practice 4