

MELPARK PRIMARY SCHOOL



MATHEMATICS

VERY IMPORTANT:

- In your stationery pack you received 4 Mathematics exercise books for the year (one for each term).
- You can use your second book now.
- Use the first page as a cover page for TERM 2
- Complete the work given in your new exercise book.
- Write the date the topic and worksheet number before you start (like we do in class).
- If you do not have your new book, then complete the work on paper so that we can paste it in your book later.

DECIMAL FRACTIONS

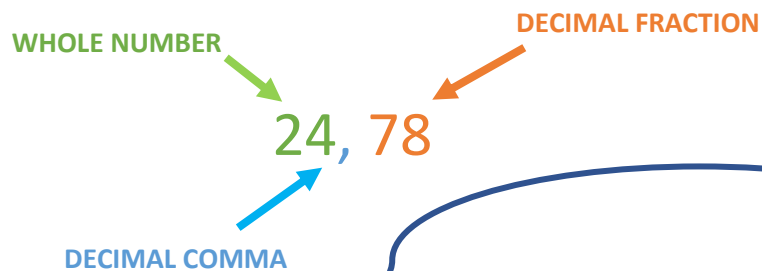
Decimal fractions are PARTS of a WHOLE.

It is not 1 yet...

Important to Remember:

Decimal Fractions are out of 10, 100 or 1 000.

(It can be out of 10 000, 100 000, 1 000 000 etc. – But for this year we only work with 10, 100 or 1 000)

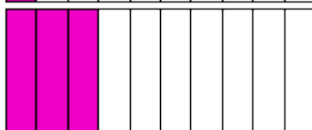


Decimals show parts of whole numbers.

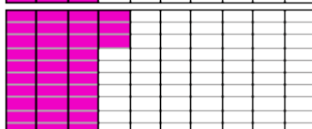
0,1 is one part in 10.



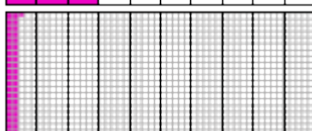
0,3 is 3 parts in 10.



0,33 is 33 parts in 100.



0,041 is forty-one parts in 1000.



Place Value:

HUNDREDS	TENS	UNITS	DECIMAL COMMA	TENTHS	HUNDREDTHS	THOUSANDTHS
1	2	3	,	4	5	6

$$123,456 = 123 \frac{456}{1000}$$

How do we know if the decimal fraction is out of 10, 100 or 1 000?

Look at how many digits are **AFTER** the decimal comma.

$$0,7 \text{ (One digit after the decimal comma)} = \frac{7}{10} \text{ (Ten has one zero)}$$

$$0,12 \text{ (Two digits after the decimal comma)} = \frac{12}{100} \text{ (Hundred has two zeros)}$$

$$0,457 \text{ (Three digits after the decimal comma)} = \frac{457}{1000} \text{ (Thousand has three zeros)}$$

* The Zero in front of the comma means ZERO WHOLE NUMBERS.

If there is a whole number, then you will have a mixed number

$$4,56 = 4 \frac{56}{100}$$

Writing common fractions as decimal fractions.

Examples:

$$\frac{9}{10} = 0,9$$

$$15\frac{4}{10} = 15,4$$

$$\frac{34}{100} = 0,34$$

$$\frac{2}{100} = 0,02$$

(Because it's out of 100 – we have to use 2 digits after the comma)

$$6\frac{238}{1000} = 6,238$$

$$\frac{3}{1000} = 0,003$$

(Because it's out of 1000 – we have to use 3 digits after the comma)

Let's try that the other way around.

Count your digits after the decimal comma – that will tell you if it's out of 10, 100 or 1000

Examples:

$$1,3 = 1\frac{3}{10}$$

$$0,17 = \frac{17}{100}$$

$$4,09 = 4\frac{9}{100}$$

$$0,004 = \frac{4}{1000}$$