

FRACTIONS AND DECIMALS

Note Title

08/11/2005

Converting decimals into fractions

Column Headings :-

<u>H</u>	<u>T</u>	<u>U</u>	<u>$\cdot \frac{1}{10}$</u>	<u>$\frac{1}{100}$</u>	<u>$\frac{1}{1000}$</u>	<u>$\frac{1}{10000}$</u>
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3 . 7

$$= 3 \frac{7}{10}$$

3 . 0 7

$$= 3 \frac{7}{100}$$

1 5 . 0 4

$$= 15 \frac{4}{1000}$$

8 . 3 9

$$= 8 \frac{39}{100}$$

$$\left[\begin{aligned} 8.39 &= 8 + \frac{3}{10} + \frac{9}{100} \\ &= 8 + \frac{30}{100} + \frac{9}{100} \\ &= 8 \frac{39}{100} \end{aligned} \right]$$

More examples

$$\textcircled{1} \quad 5.058 = 5 \frac{58}{1000}$$

$$\textcircled{2} \quad 13.307 = 13 \frac{307}{1000}$$

Fractions into Decimals

To turn a fraction into a decimal:—

$$\textcircled{3} \quad 5\frac{9}{100} = 5.09$$

$$\textcircled{4} \quad 4\frac{6}{10} = 4\frac{6}{10} = 4.6$$

$$\textcircled{5} \quad 3\frac{15}{100} = 3\frac{15}{100} = 3.15$$

$$\textcircled{6} \quad 3\frac{12}{100} = 3\frac{12}{100} = 3.12$$

If we cannot find a suitable way of turning the fraction into tenths, hundreds, thousandths etc, we have to do a division sum.

$$\textcircled{7} \quad 5\frac{3}{8} = 5.375 \quad \begin{array}{r} 0.375 \\ 8 \overline{) 3.0600} \end{array}$$

$$\textcircled{8} \quad 6\frac{5}{6} = 6.8\dot{3} \quad \begin{array}{r} 0.8333 \\ 6 \overline{) 5.0000} \end{array}$$