



## CONVERTING FRACTIONS TO DECIMALS

Converting fractions into decimals is a straightforward task if you have a calculator to hand. If you do not have a calculator then you can still convert fractions into decimals using long division.

To convert a fraction to a decimal, you simply need to divide the numerator by the denominator using a calculator. Your calculator will display this as a decimal answer.

Example 1 - Convert  $\frac{2}{5}$  to a decimal.  $\frac{2}{5} = 2 \div 5 = 0.4$

Example 2 - Convert  $\frac{3}{16}$  to a decimal.  $\frac{3}{16} = 3 \div 16 = 0.1875$

Convert these fractions into decimals:

1)  $\frac{1}{5} =$

2)  $\frac{3}{12} =$

3)  $\frac{3}{8} =$

4)  $\frac{4}{5} =$

5)  $\frac{7}{4} =$

6)  $\frac{7}{16} =$

7)  $\frac{1}{6} =$

8)  $\frac{11}{2} =$

9)  $\frac{18}{8} =$

10)  $\frac{6}{15} =$

11)  $\frac{7}{3} =$

12)  $\frac{6}{20} =$

13)  $\frac{9}{15} =$

14)  $\frac{16}{6} =$

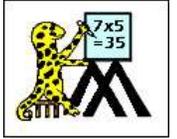
15)  $\frac{7}{9} =$

16)  $\frac{9}{5} =$



Name

Date



## CONVERTING FRACTIONS TO DECIMALS ANSWERS

$$1) \frac{1}{5} = 0.2 \quad 2) \frac{3}{12} = 0.25 \quad 3) \frac{3}{8} = 0.375 \quad 4) \frac{4}{5} = 0.8$$

$$5) \frac{7}{4} = 1.75 \quad 6) \frac{7}{16} = 0.4375 \quad 7) \frac{1}{6} = 0.166 \quad 8) \frac{11}{2} = 5.5$$

$$9) \frac{18}{8} = 2.25 \quad 10) \frac{6}{15} = 0.4 \quad 11) \frac{7}{3} = 2.33 \quad 12) \frac{6}{20} = 0.3$$

$$13) \frac{9}{15} = 0.6 \quad 14) \frac{16}{6} = 2.66 \quad 15) \frac{7}{9} = 0.77 \quad 16) \frac{9}{5} = 1.8$$

Please note for questions 7, 11, 14 and 15 there is a dot above the last digit. This means that the decimal repeats the last digit with the dot above an infinite number of times!

Example – the answer to question 7 is 0.166666... where the last digit 6 is repeated forever!



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