

DECIMALS

'Division of Decimals – quotient as mixed number'

We have to be very careful while dividing a decimal number by a whole number. The following example will show you a step by step procedure to carry out the operation.



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Knowledge		
Example: DIVIDE!		Mull at at dividing from the first divit is 2
<u>Step:1</u>	0.6 5 3.465 - <u>30</u> 4	 We'll start dividing from the first digit i.e. 3. Since 3<5, so we'll take 4 and divide 34 by 5. 5×6=30 and 30<34, so we'll write 6 in the quotient area. Since we took a digit after decimal point to start the procedure, we'll put the decimal point first in the quotient area before 6. Next carry out subtraction; 34-30=4
<u>Step:2</u>	$ \begin{array}{c} 0.69 \\ 5 3.465 \\ 3 0 \\ 46 \\ -45 \\ 1 \end{array} $	Now 4<5 so we'll bring down 6 to make 46. 5×9=45 and 45<46, so we'll write 9 in the quotient & 45 under 46. Next comes subtraction; 46-45=1.
<u>Step:3</u>	$\begin{array}{c} 0.693 \\ 5 \overline{\smash{\big)}3.465} \\ \underline{3 0} \\ 46 \\ \underline{-45} \\ 15 \\ \underline{-15} \\ 0 \end{array}$	Now, since 1<5 we'll bring down 5 with 1. 5×3=15 , we'll write 3 in the quotient area and 15 under 15. Next, we'll carry out subtraction i.e. 15-15=0. And we are done !
3.465 ÷ 5 = 0.693		

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