

Long Division (Divisor Decimals)

Decimals in the Divisor

The divisor is the number you are dividing by. Sometimes, divisors have decimals in them. However, long division becomes much easier if you get rid of these decimals first.

Remember, everything you do to the divisor (outside number), you must do the same to the dividend (inside number).

EXAMPLE: Divide 50 by 1.1

$$\begin{array}{r}
 45.45 \\
 11 \overline{) 500.00} \\
 - 44 \\
 \hline
 60 \\
 - 55 \\
 \hline
 50 \\
 - 44 \\
 \hline
 60 \\
 \text{and so on...}
 \end{array}$$

To divide 50 by 1.1, we can get rid of the decimal in the number 1.1 to make things simpler.

We will multiply 1.1 by 10 to move the decimal place to the right. We get the number 11 which is easier to deal with.

We also have to do the same to the number 50. Multiplying it by 10 gives us the number 500.

Long division can now be carried out using easier numbers.

RECALL THESE STEPS

How To Long Divide with DMSB

(DAD, MUM, SISTER, BROTHER & RELATIVES)

STEP ONE

D = Divide

STEP TWO

M = Multiply

STEP THREE

S = Subtract

STEP FOUR

B = Bring down

STEP FIVE

R = Remainders





REPEAT STEPS

Long Division is great for dividing big numbers *without a calculator!*





Instructions: Round your answers to two decimals.

1	Divide 40 by 0.5 	2	Divide 32 by 1.2 
3	Divide 28 by 0.3 	4	Divide 83 by 0.9 



5

Divide 87 by 0.3



6

Divide 43 by 1.1



7

Divide 932 by 0.6



8

Divide 103 by 0.4



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Instructions: Round your answers to two decimals.

1	<p>Divide 58 by 0.3</p> <p>_____</p>	2	<p>Divide 39 by 0.7</p> <p>_____</p>
3	<p>Divide 94 by 0.6</p> <p>_____</p>	4	<p>Divide 89 by 1.2</p> <p>_____</p>



5

Divide 842 by 0.6



6

Divide 487 by 1.2



7

Divide 998 by 0.7



8

Divide 784 by 0.9

