

Long Division (Adding Zeros)

Dividing Small Numbers by Large Numbers

It will often come in handy to know how to divide small numbers by large numbers. For example, you may be trying to convert a fraction into a decimal or percentage without using a calculator.

To do this, you will need to learn how to add zeros to the numbers that you are dividing.

EXAMPLE: Divide 1 by 40

$$\begin{array}{r}
 0.025 \\
 40 \overline{) 1.000} \\
 \underline{- 80} \\
 200 \\
 \underline{- 200} \\
 0
 \end{array}$$

Dividing the number 1 by 40 can be done by adding a decimal point after 1 followed by three zeros.

The number of zeros that you can add is infinite. However, only three are needed here in order to find the answer.

The answer can now be used as a decimal or percentage (e.g. 2.5%).

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 three decimals.

1	$7 \overline{)4}$	2	$9 \overline{)3}$
3	$8 \overline{)6}$	4	$9 \overline{)2}$
5	$5 \overline{)3}$	6	$9 \overline{)4}$



7

$$12 \overline{) 4}$$

8

$$11 \overline{) 3}$$

9

$$8 \overline{) 1}$$

10

$$14 \overline{) 2}$$

11

$$11 \overline{) 9}$$

12

$$12 \overline{) 7}$$

Long Division (Adding Zeros)

Dividing Small Numbers by Large Numbers

It will often come in handy to know how to divide small numbers by large numbers. For example, you may be trying to convert a fraction into a decimal or percentage without using a calculator.

To do this, you will need to learn how to add zeros to the numbers that you are dividing.

EXAMPLE: Divide 1 by 40

$$\begin{array}{r}
 0.025 \\
 40 \overline{) 1.000} \\
 \underline{- 80} \\
 200 \\
 \underline{- 200} \\
 0
 \end{array}$$

Dividing the number 1 by 40 can be done by adding a decimal point after 1 followed by three zeros.

The number of zeros that you can add is infinite. However, only three are needed here in order to find the answer.

This answer can now be used as a decimal or percentage (e.g. 2.5%).

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 four decimals.

1	$8 \sqrt{\quad}$	2	$9 \sqrt{\quad}$
3	$14 \sqrt{\quad}$	4	$15 \sqrt{\quad}$
5	$13 \sqrt{\quad}$	6	$14 \sqrt{\quad}$



7

$$18 \overline{) 1}$$

8

$$25 \overline{) 2}$$

9

$$15 \overline{) 6}$$

10

$$13 \overline{) 7}$$

11

$$13 \overline{) 6}$$

12

$$45 \overline{) 1}$$