

Long Division (Remainders)

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!



Multiply the numbers and write the answer underneath

$$1 \times 2 = 2$$

Divide by asking how many times the outside number goes into the inside number?

$$2 \text{ into } 2 = 1$$

Write the answer on top of the 2.

$$\begin{array}{r}
 115.5 \text{ or } \frac{1}{2} \\
 \hline
 2 \overline{) 231} \\
 \underline{- 2} \\
 03 \\
 \underline{- 2} \\
 11 \\
 \underline{- 10} \\
 1
 \end{array}$$

Subtract the numbers and draw a line underneath. Write your answer at the bottom.

$$1 \times 2 = 2$$

Bring down the next number. Repeat steps one to four with this new "inside" number.

$$2 \text{ into } 3 = 1$$

Remainders (left-overs) can be written as fractions or decimals.

$$\frac{\text{Remainder}}{\text{Outside Number}} = \frac{1}{2} = 0.5$$

The final answer is **115.5** or **115 $\frac{1}{2}$**



Instructions: Use long division to answer the questions below.

1

$$8 \overline{) 31100}$$

2

$$4 \overline{) 59913}$$

3

$$5 \overline{) 23141}$$

4

$$6 \overline{) 58484}$$



5

$$8 \overline{) 95564}$$

6

$$3 \overline{) 67750}$$

7

$$6 \overline{) 49384}$$

8

$$5 \overline{) 93721}$$



9

$$4 \overline{) 53575}$$

10

$$8 \overline{) 75570}$$

11

$$5 \overline{) 97327}$$

12

$$8 \overline{) 61289}$$

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Instructions: Use long division to answer the questions below.

1

$$6 \overline{) 74757}$$

2

$$8 \overline{) 41810}$$

3

$$5 \overline{) 90676}$$

4

$$4 \overline{) 85555}$$



5

$$8 \overline{) 37353}$$

6

$$6 \overline{) 51339}$$

7

$$5 \overline{) 82108}$$

8

$$3 \overline{) 64988}$$



9

$$4 \overline{) 30925}$$

10

$$3 \overline{) 42229}$$

11

$$5 \overline{) 47449}$$

12

$$8 \overline{) 78662}$$