

# Long Division of Money

by Monica Yuskaitis



# Long Division of Money

- Long division is as simple as memorizing the people in this family.



**Dad**



**Mom**



**Sister**



**Brother**



**Rover**

# Long Division of Money

- Each person represents a step in the long division process.



**Dad**

**1. Divide**



**Sister**

**3. Subtract**



**Brother**

**4. Bring down**



**Mom**

**2. Multiply**



**Rover**

**5. Repeat or  
Remainder**

# Step 1 in Long Division



**Dad**

## 1. Divide

- Divide 3 into first number in the dividend.
- Think how many 3's will fit into 7.
- Write that number directly above the number you divided into.

$$3 \overline{) 7.38}$$

The number 2 is written above the 7 in the dividend. A red arrow points from the 3 to the 7.

How many 3's  
will go into 7?



# Money Step



- Place the decimal point next to the 2.
- Notice that the decimal is directly above the decimal in the dividend.

$$\begin{array}{r} 2. \\ \hline 3 \overline{) 7.38} \end{array}$$

You are doing just fine!



# Step 2 in Long Division



Mom

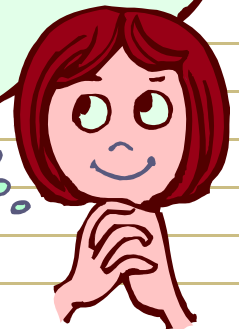
## 2. Multiply

$$\begin{array}{r} 3 \overline{) 7.38} \\ \underline{6} \phantom{0} \\ \phantom{0} 13 \phantom{0} \\ \phantom{0} \underline{6} \phantom{0} \\ \phantom{0} \phantom{0} 7 \phantom{0} \\ \phantom{0} \phantom{0} \underline{6} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} 1 \phantom{0} \end{array}$$

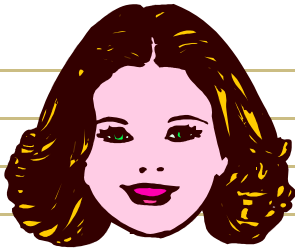
The diagram shows the long division of 7.38 by 3. A red arrow points from the 3 to the 2 in the quotient. The number 2 is written in red above the decimal point. The number 6 is written in red below the 7.

- Multiply the divisor times the first number in the quotient.
- Write your answer directly under the 7 or the number you just divided into.

$$3 \times 2 = 6$$



# Step 3 in Long Division



Sister

## 3. Subtract

- Draw a line under the 6.
- Write a subtraction sign next to the 6.
- Subtract 6 from 7.
- Write your answer directly below the 6.

$$\begin{array}{r} 2. \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \\ 1 \end{array}$$

# Step 4 in Long Division



Brother

**4. Bring  
down**

$$\begin{array}{r} 2. \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \end{array}$$

- Go to the next number in the dividend to the right of the 7.
- Write an arrow under the 3.
- Bring the 3 down next to the 1.

## Step 5 in Long Division



Rover

### 5. Repeat or Remainder

- This is where you decide whether you repeat the 5 steps of division.
- If your divisor can divide into your new number, 13, or if you have numbers in the dividend that have not been brought down, you repeat the 5 steps of division.

$$\begin{array}{r} 2. \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \end{array}$$

# Step 1 in Long Division



**Dad**

## 1. Divide

- Divide 3 into your new number, 13.
- Place your answer directly above the 3 in your quotient.

$$\begin{array}{r} 2.4 \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \end{array}$$

# Step 2 in Long Division



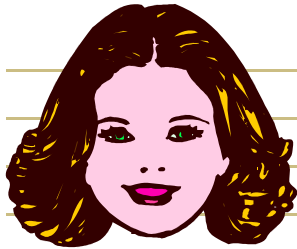
## 2. Multiply

**Mom**

- Multiply your divisor, 3, with your new number in the quotient, 4.
- Place your answer directly under the 13.

$$\begin{array}{r} 24 \\ 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \\ \underline{12} \phantom{0} \\ \phantom{1}30 \phantom{0} \\ \underline{\phantom{1}30} \phantom{0} \\ \phantom{1}0 \phantom{0} \end{array}$$

# Step 3 in Long Division



Sister

## 3. Subtract

- Draw a line under the bottom 12.
- Draw a subtraction sign.
- Subtract & place answer under the line.

$$\begin{array}{r} 2.4 \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \quad \downarrow \\ 13 \\ \underline{-12} \\ 1 \end{array}$$

# Step 4 in Long Division



Brother

4. Bring  
down

- Put an arrow under the next number, 8, in the dividend.
- Bring the 8 down next to the 1.

$$\begin{array}{r} 2.4 \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \downarrow \\ 13 \phantom{0} \\ \underline{-12} \\ 18 \end{array}$$

# Step 5 in Long Division



Rover

## 5. Repeat or Remainder

- If the 3 will divide into your new number, 18, then repeat the steps of division.

$$\begin{array}{r} 2.4 \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \end{array}$$

# Step 1 in Long Division



**Dad**

## 1. Divide

- Divide your divisor, 3, into your new number, 18.
- Place your answer in the quotient next to the 4.

$$\begin{array}{r} 2.46 \\ \hline 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \end{array}$$

The diagram shows the long division process. A red arrow points from the divisor '3' to the '18' in the remainder. Another red arrow points from the '4' in the quotient to the '18' in the remainder. A black arrow points down from the '3' in the dividend to the '3' in the remainder. A black arrow points down from the '8' in the dividend to the '8' in the remainder.

## Step 2 in Long Division



Mom

### 2. Multiply

- Multiply your divisor, 3, by your new number in the quotient, 6.
- Place your answer under your new number, 18.

$$\begin{array}{r} 2.46 \\ 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \phantom{0} \\ \underline{-18} \\ 0 \end{array}$$

The diagram shows the long division process for 7.38 divided by 3. The divisor is 3, and the dividend is 7.38. The quotient is 2.46. A red arrow points from the 2 in the quotient to the 6 in the quotient. A red arrow points from the 4 in the quotient to the 18 in the remainder. A red arrow points from the 6 in the quotient to the 18 in the remainder. The final remainder is 18, which is written in red.

# Step 3 in Long Division



Sister

## 3. Subtract

- Draw a line under the number 18.
- Place your subtraction sign.
- Subtract & put your answer directly under the 18.

$$\begin{array}{r} 2.46 \\ 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

## Step 4 in Long Division



### 4. Bring down

**Brother**

- Look at your dividend to see if there are any more numbers to bring down.
- If not, move to step 5.

$$\begin{array}{r} 2.46 \\ 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

## Step 5 in Long Division



Rover

### 5. Repeat or Remainder

- Since there are no more numbers to bring down & 3 will not divide into 0, you do not repeat the steps of division.
- There is no remainder left.

$$\begin{array}{r} 2.46 \\ 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

# Money Step



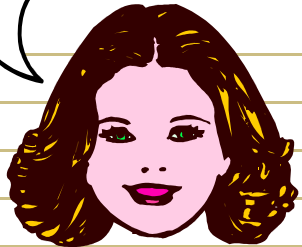
- Place the dollar sign in front of your answer.

$$\begin{array}{r} \$ 2.46 \\ 3 \overline{) 7.38} \\ \underline{-6} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

You did it!



You're awesome!



$$\begin{array}{r}
 \$2.46 \\
 \hline
 3 \overline{) 7.38} \\
 \underline{-6} \phantom{0} \\
 13 \phantom{0} \\
 \underline{-12} \\
 18 \\
 \underline{-18} \\
 0
 \end{array}$$

You're so smart!



Cool Dude!



Wolf!



# Credits

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