Long Division

- by Monica Yuskaitis

Long Division

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

Dad

Mom

Sister

Brother

Rover

Long Division

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

1. Divide

Dad

2. Multiply

Mom

3. Subtract

Sister

4. Bring down

Brother

5. Repeat or Remainder

Rover

Step 1 in Long Division

1. Divide

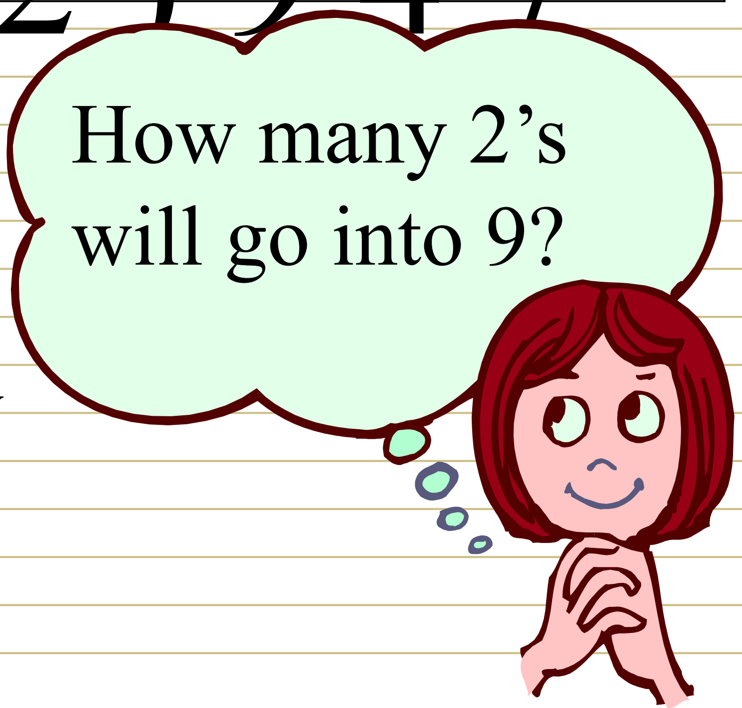
Dad

4

2) 9 4 7

- Divide 2 into first number in the dividend.
- Think how many 2's will fit into 9.

- Write that number directly above the number you divided into.



Step 2 in Long Division

Mom

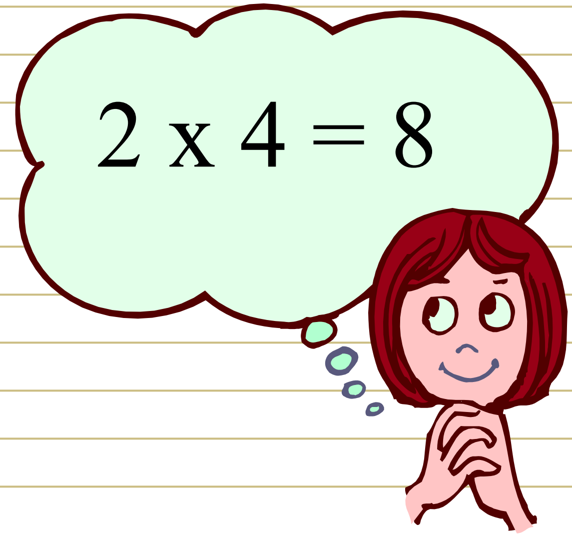
2. Multiply

4

2) 9 4 7

8

- Multiply the divisor times the first number in the quotient.
- Write your answer directly under the 9 or the number you just divided into.



Step 3 in Long Division

3. Subtract

Sister

- Draw a line under the 8.
- Write a subtraction sign next to the 8.
- Subtract 8 from 9.
- Write your answer directly below the 8.

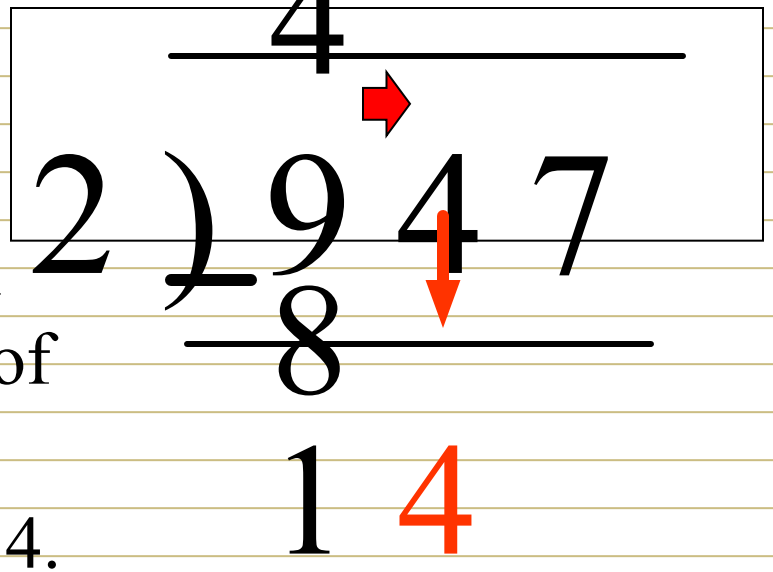
$$\begin{array}{r} 4 \\ 2\overline{)947} \\ -8 \\ \hline 1 \end{array}$$

Step 4 in Long Division

4. Bring down

Brother

- Go to the next number in the dividend to the right of the 9.
- Write an arrow under the 4.
- Bring the 4 down next to the 1.
-



Step 5 in Long Division

Rover

5. Repeat or Remainder

$$\begin{array}{r} 4 \\ 2\overline{)947} \\ 8 \\ \hline 14 \end{array}$$

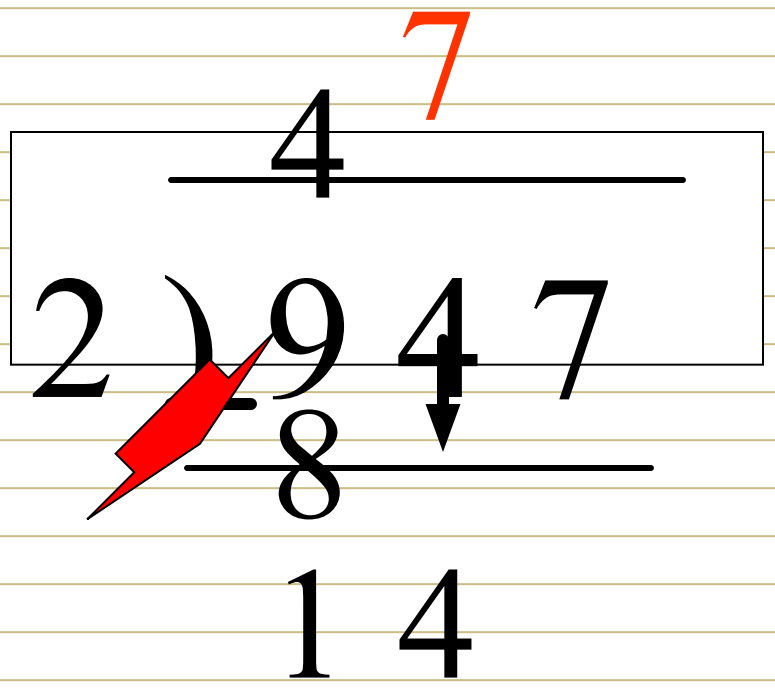
5

- This is where you decide whether you repeat the steps of division.
- If your divisor can divide into your new number, 14, or if you have numbers in the dividend that have not been brought down, you repeat the 5 steps of division.

Step 1 in Long Division

1. Divide

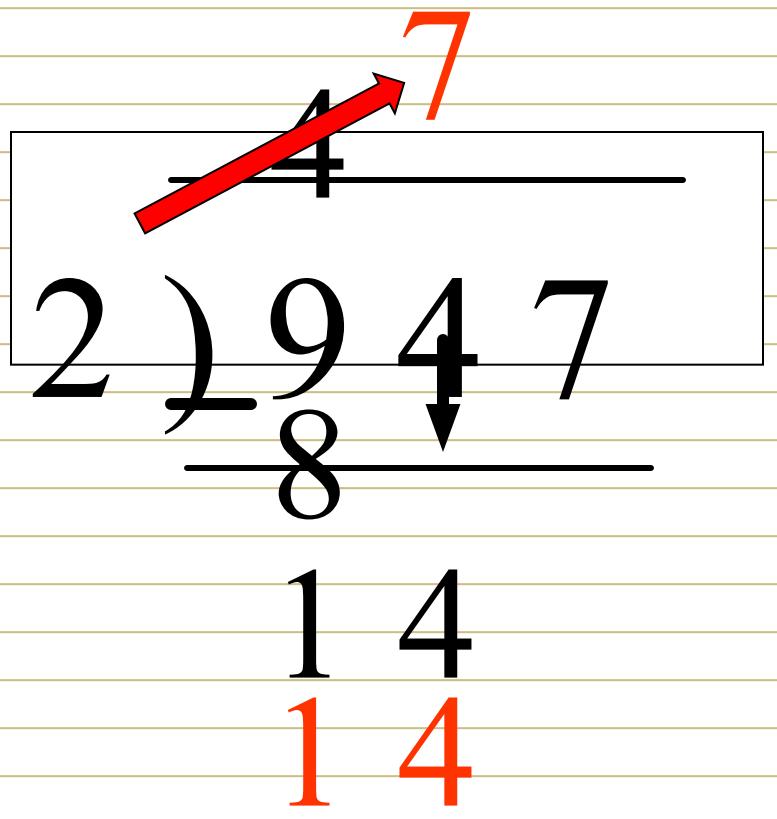
Dad



- Divide 2 into your new number, 14.
- Place your answer directly above the 4 in your quotient.
-

Step 2 in Long Division

2. Multiply



Mom

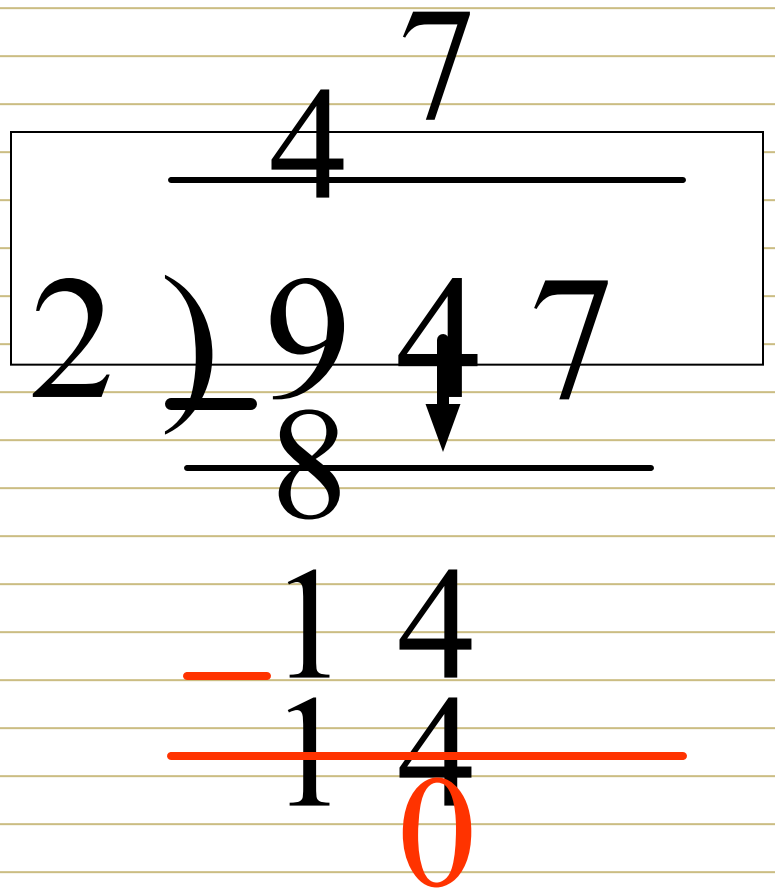
- Multiply your divisor, 2, with your new number in the quotient, 7.
- Place your answer directly under the 14.
-

Step 3 in Long Division

3. Subtract

Sister

- Draw a line under the bottom 14.
- Draw a subtraction sign.
- Subtract & place answer under the line.
-



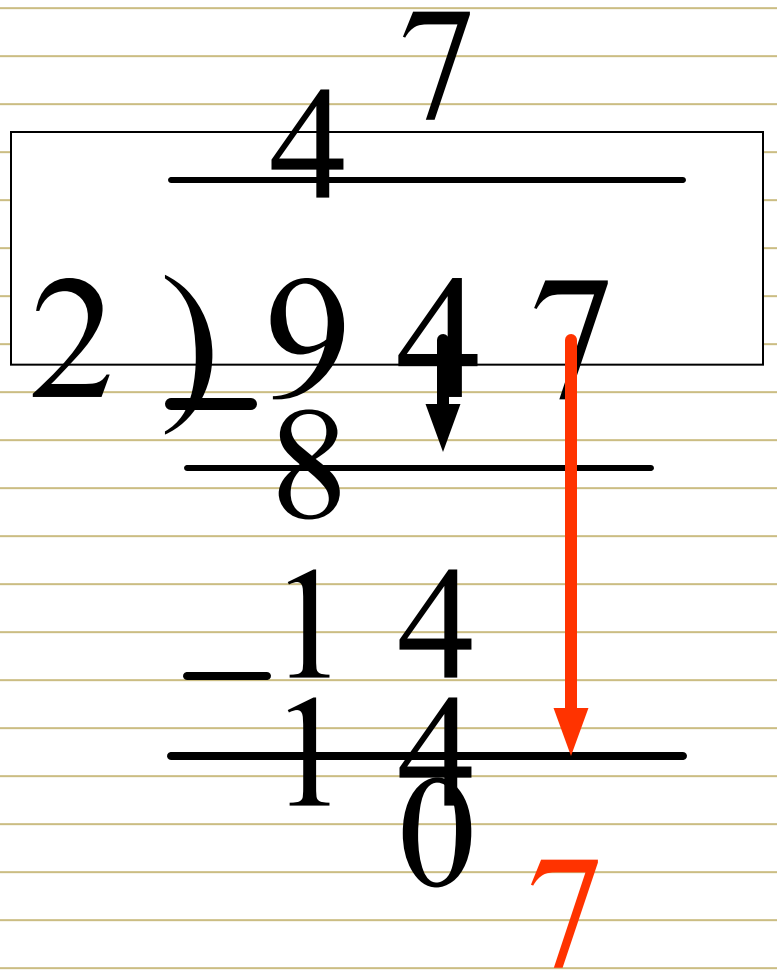
Step 4 in Long Division

4. Bring down

Brother

- Put an arrow under
- the next number, 7,
- in the dividend.

- Bring the 7 down next to the 0.



Step 5 in Long Division

Rover

5. Repeat or Remainder

$$\begin{array}{r} 47 \\ 2\overline{)947} \\ -8\downarrow \\ \hline 14 \\ -14 \\ \hline 07 \end{array}$$

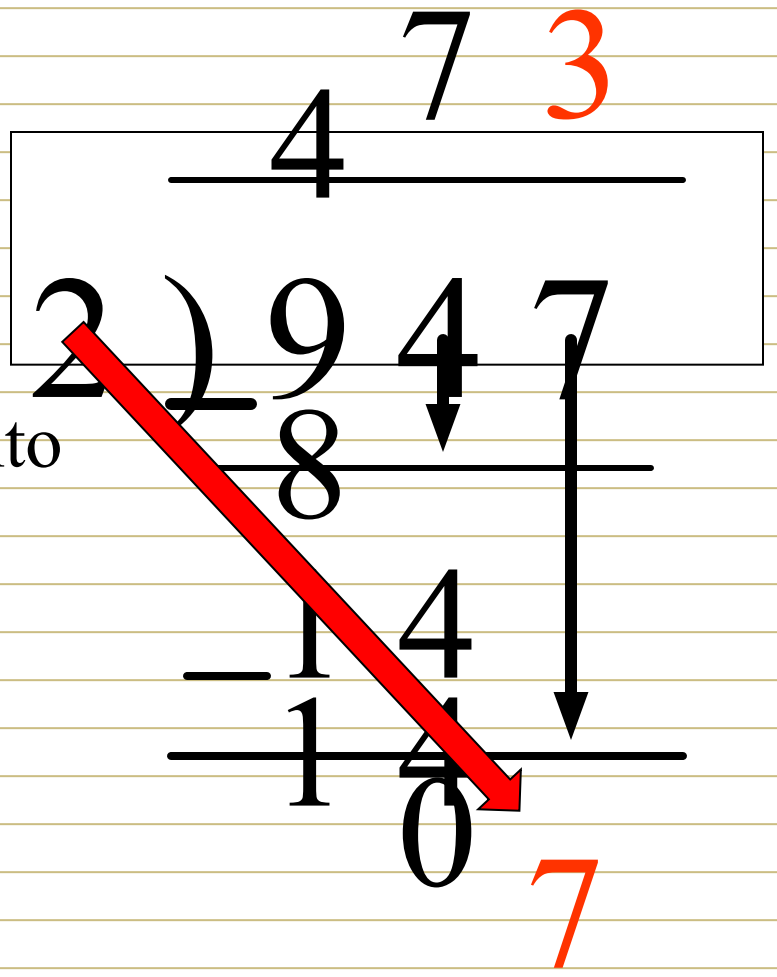
- If the 2 will divide into your new number, 7, then repeat the steps of division.
-

Step 1 in Long Division

1. Divide

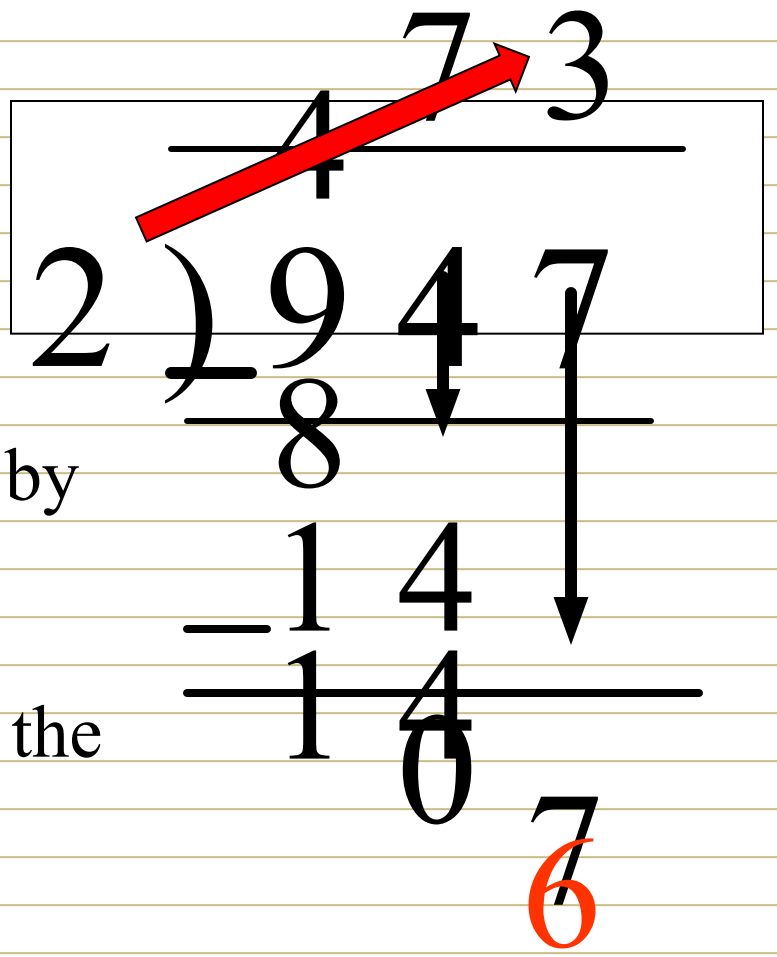
Dad

- Divide your divisor, 2, into your new number, 7.
- Place your answer in the quotient next to the 7.



Step 2 in Long Division

2. Multiply



Mom

- Multiply your divisor, 2, by your new number in the quotient, 3.
- Place your answer under the number you brought down, 7.
-

Step 3 in Long Division

3. Subtract

Sister

- Draw a line under the number 6.
- Place your subtraction sign.
- Subtract & put your answer
- directly under the 6.

```
     4 7 3
2 ) 9 4 7
  - 8
    1 4
  - 1 4
      0 7
  -     6
        1
```

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.

-

$$\begin{array}{r} 73 \\ 2\overline{)947} \\ -8\downarrow\downarrow \\ \hline 14\downarrow \\ -14 \\ \hline 07 \\ -6 \\ \hline 1 \end{array}$$

Step 5 in Long Division

Rover

5. Repeat or Remainder

$$\begin{array}{r} 73\ R1 \\ 2\overline{)947} \\ -8 \\ \hline 14 \\ -14 \\ \hline 07 \\ -6 \\ \hline 1 \end{array}$$

- Since there are no more numbers to bring down & 2 will not divide into 1, you do not repeat the steps of division.
- The number left over, 1, becomes the remainder.

You did it!

You're awesome!

$$
\begin{array}{r}
73\ R1 \\
2\overline{)947} \\
-8 \\
\hline
14 \\
-14 \\
\hline
07 \\
-6 \\
\hline
1
\end{array}
$$

Cool Dude!

You're so smart!

Wolf!

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