

## Short division ( with no remainders ) – How to: step by step

$$8124 \div 4$$

1. Write out the question

$$4 \overline{) 8124}$$

2. Divide – how many 4s fit into 8?

$$4 \overline{) \begin{array}{r} 2 \\ 8124 \end{array}}$$

3. Divide – how many 4s fit into 1?

$$4 \overline{) \begin{array}{r} 20 \\ 81^1 24 \end{array}}$$

Carry the 1 over to the next digit.

4. Divide – how many 4s fit into 12?

$$4 \overline{) \begin{array}{r} 203 \\ 81^1 24 \end{array}}$$

5. Divide – how many 4s fit into 4?

$$4 \overline{) \begin{array}{r} 2031 \\ 81^1 24 \end{array}}$$

$$8124 \div 4 = 2031$$

## Short division ( with remainders ) – How to: step by step

$$8125 \div 4$$

1. Write out the question

$$4 \overline{) 8125}$$

2. Divide – how many 4s fit into 8?

$$4 \overline{) \begin{array}{r} 2 \\ 8125 \end{array}}$$

3. Divide – how many 4s fit into 1?

$$4 \overline{) \begin{array}{r} 20 \\ 81^125 \end{array}}$$

Carry the 1 over to the next digit.

4. Divide – how many 4s fit into 12?

$$4 \overline{) \begin{array}{r} 203 \\ 81^125 \end{array}}$$

5. Divide – how many 4s fit into 5?

$$4 \overline{) \begin{array}{r} 2031 \text{ r}1 \\ 81^125 \end{array}}$$

What is left over?  
That becomes your remainder.

$$8125 \div 4 = 2031 \text{ r } 1$$