

$$578 \div 17 =$$

STEP 1:

1 x	17	=	17
2 x	17	=	34
3 x		=	51
4 x		=	68
5 x		=	85
6 x		=	102
7 x		=	119
8 x		=	136
9 x		=	153

STEP 2:

$$\begin{array}{r} 34 \\ 17 \overline{) 578} \\ \underline{51} \phantom{0} \\ 68 \end{array}$$

OR

$$\begin{array}{r} 034 \\ 17 \overline{) 578} \end{array}$$

↪ Fine for these numbers but can get messy / difficult with bigger numbers.

STEP 2 Broken Down:

$$\begin{array}{r} 3 \\ 17 \overline{) 578} \end{array}$$

- a. Can I divide 5 by 17? No
- b. How many 17s in 57 instead?  
- Check the fact box - the answer is 3.

$$\begin{array}{r} 3 \\ 17 \overline{) 578} \\ \underline{51} \phantom{0} \\ 68 \end{array}$$

- c. Work out the remainder →  
 $17 \times 3 = 51$
- d. The remainder is 6.  
Instead of carrying it over to the next digit, we bring the next digit down.

$$\begin{array}{r} 34 \\ 17 \overline{) 578} \\ \underline{51} \phantom{0} \\ 68 \end{array}$$

- e. Now I'm working with 68.  
How many 17s are in 68?  
Check the fact box.  
There are 4.
- f. No need to calculate a remainder because  $4 \times 17 = 68$

The answer is 34.

Another example:

$$4173 \div 13 =$$

1 x	13	=	13
2 x	13	=	26
3 x		=	39
4 x		=	52
5 x		=	65
6 x		=	78
7 x		=	91
8 x		=	104
9 x		=	117

$$\begin{array}{r} 321 \\ 13 \overline{) 4173} \\ \underline{39} \phantom{0} \\ 27 \phantom{0} \\ \underline{26} \phantom{0} \\ 13 \end{array}$$

- a. 13s in 4 = 0
- b. 13s in 41 = 3
- c. Remainder
- d. Bring down
- e. 13s in 27 = 2
- f. Remainder
- g. Bring down
- h. 13s in 13 = 1