## Long division

This is the traditional way of doing long division, which you may have been taught at school.

Have a look at the calculation: 8,640 + 15



15 into 8 doesn't go, so look at the next digit.

15 goes into 86 five times, so put a 5 above the 6.

15 x 5 = 75

Take that 75 away from the 86 to get your remainder.

$$86 - 75 = 11$$

Next, carry the 4 down to make 114.

15 goes into 114 seven times, so put a 7 above the 4.

15 x 7 = 105

Take 105 from the 114 to get your remainder

$$114 - 105 = 9$$

Carry the 0 down to make 90

15 goes into 90 exactly 6 times, so put a 6 above the 0

 $8,640 \div 15 = 576$