

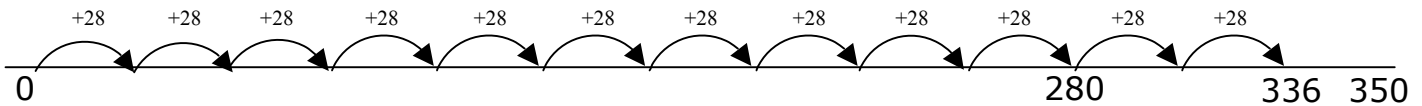
Division by 'chunking' (2)

(3 digit by 2 digit – number line)

Today your child's homework involves calculating/solving problems, using 'chunking' to divide on a number line. This is a method that builds on division as repeated addition and allows them to see easily what is being done.

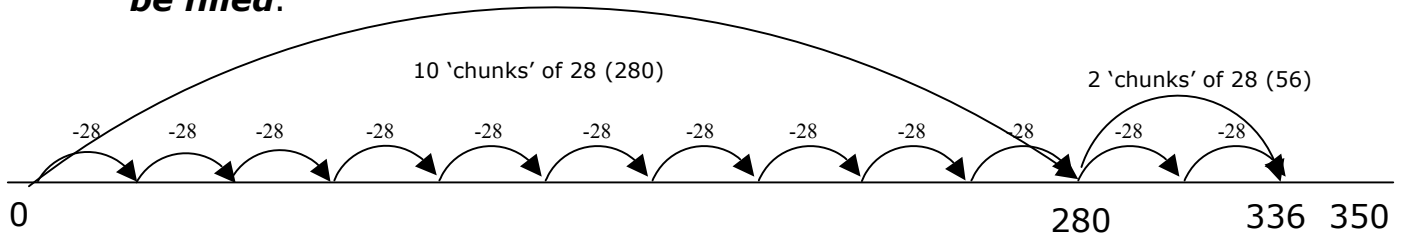
Example: If a box holds 28 chocolates, how many boxes can be filled with 350 chocolates?

So we need $350 \div 28$. What this calculation means is '**How many 28s are there in 350?**' One way to do this is to add individual 28s, as shown here, but this would be time-consuming and inefficient.



We need to think about bigger, friendly 'chunks' of 28 such as 28×10 (280). This makes the calculation easier and quicker.

Below we see the calculation represented on a number line with the bigger 'chunks' shown. First the 10 chunks of 28 (280) are added then further two 'chunks' of 28 (56) are added mentally to leave 14 chocolates. This is not enough to fill a further box so **12 boxes can be filled.**



This recording can be simplified to

