

Division - using partitioning(4)

(3 digit by 2 digit)

Today your child's homework involves calculating/solving problems, using partitioning to divide.

Example: If there are 15 cakes in a box, how many boxes can be filled with 350 cakes?

So we need $350 \div 15$. What this calculation means is '**How many fifteens are there in 350?**' One way to do this is to partition the 350 into convenient multiples of the divisor (the number you are dividing by) + what is left e.g. $350 = 300 + 50$
Then divide each part by 15 using knowledge of tables and place value

$$300 \div 15 = 20$$

$$50 \div 15 = 3 \text{ remainder } 5$$

Now add the 20 and 3 to get 23

23 boxes can be filled.

There are 5 cakes left over but the question asked 'How many boxes can be filled?' so these are not included in the answer.