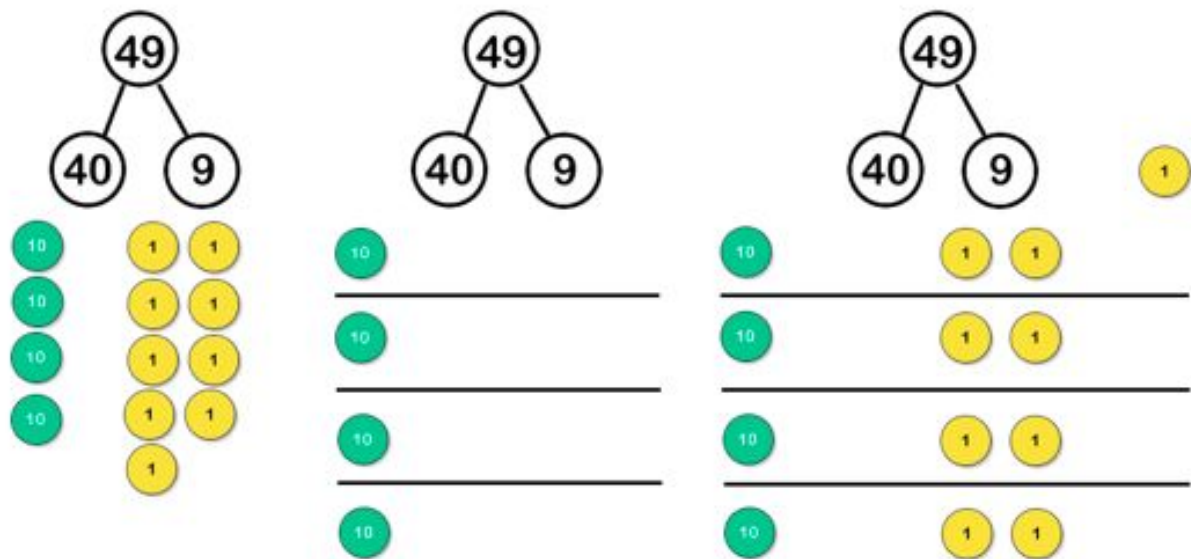


# To be able to divide two-digit numbers by single digits

## Talking Time:

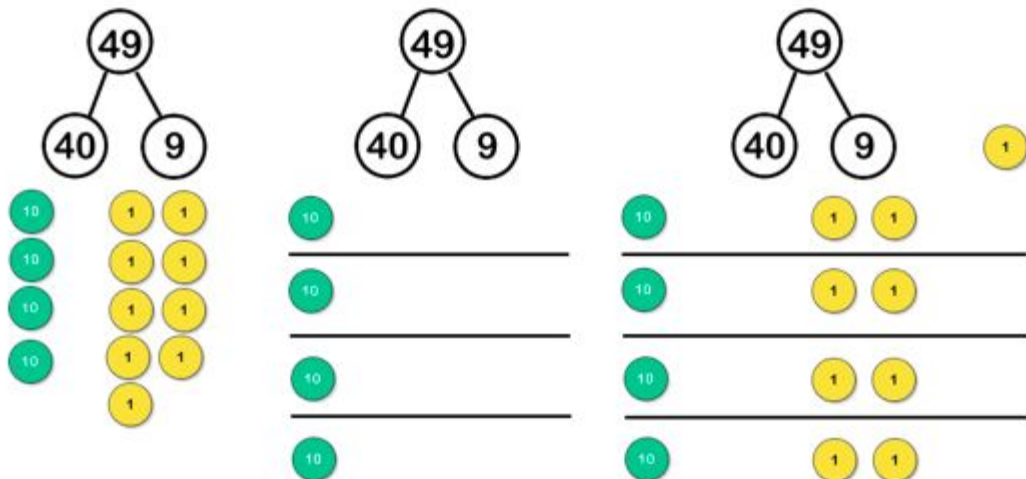
Describe the method Dale uses to find the answer to  $49 \div 4$ .



# To be able to divide two-digit numbers by single digits

## Talking Time:

Describe the method Dale uses to find the answer to  $49 \div 4$ .



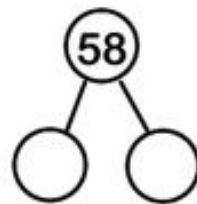
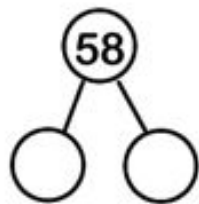
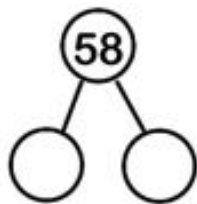
**First, Dale partitions 86 into 80 and 6 and then models both parts using place-value counters.**

**He then divides the tens by 4 ( $40 \div 4 = 10$ ) and divides the ones by 4. He has 1 one remaining at the end, so his answer is 12 remainder 1.**

# To be able to divide two-digit numbers by single digits

## Talking Time:

Use this method to find the answer to  $58 \div 5$ .



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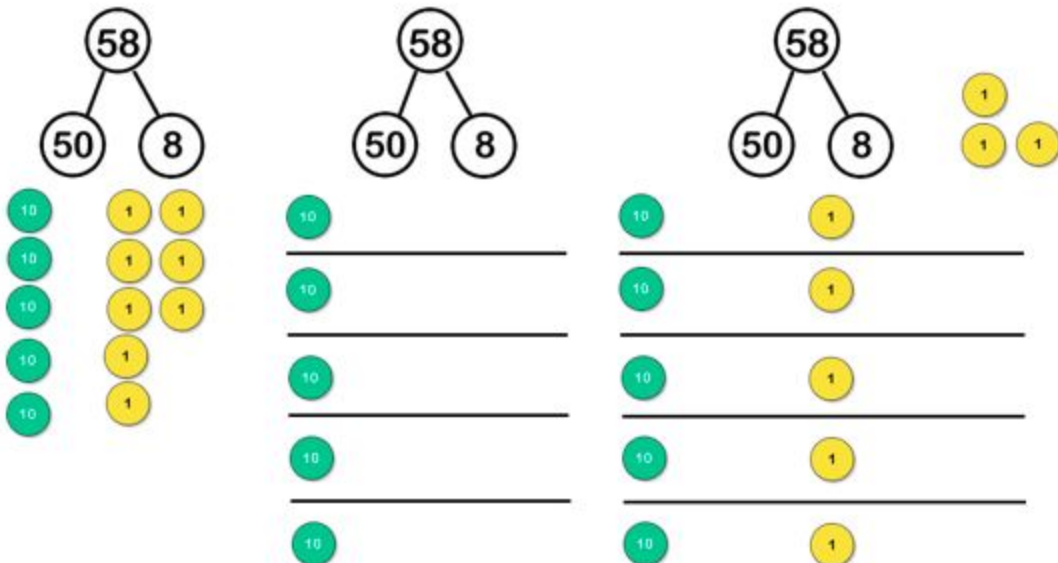
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# To be able to divide two-digit numbers by single digits

## Talking Time:

Use this method to find the answer to  $58 \div 5$ .



so,  $58 \div 5 = 11$  remainder 3

## To be able to divide two-digit numbers by single digits

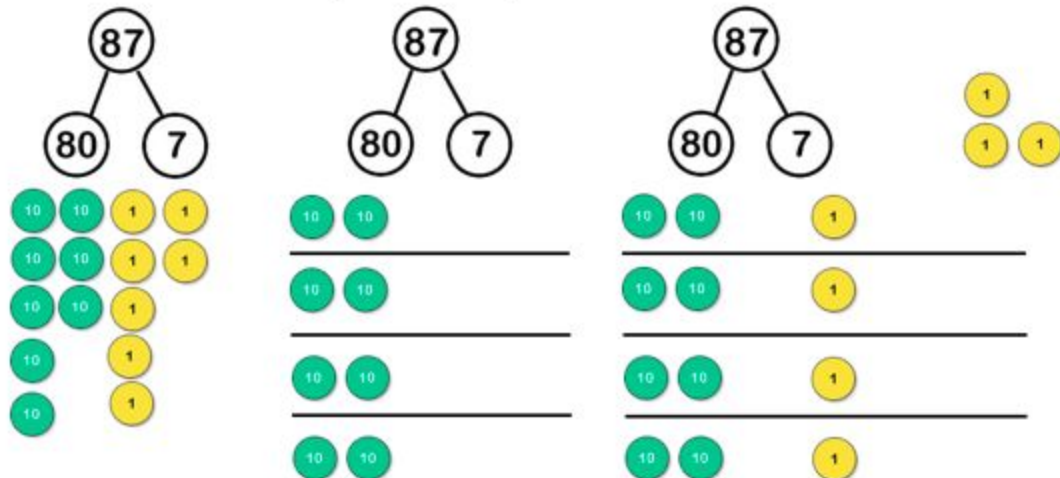
### **Activity 1:**

Use place-value counters and partitioning to find the answer to  $87 \div 4$ .

# To be able to divide two-digit numbers by single digits

## Activity 1:

Use place-value counters and partitioning to find the answer to  $87 \div 4$ .



so,  $87 \div 4 = 21$  remainder 3

# To be able to divide two-digit numbers by single digits

## Talking Time:

Describe the method Ella uses to find the answer to  $56 \div 4$ .



# To be able to divide two-digit numbers by single digits

## Talking Time:

Describe the method Ella uses to find the answer to  $56 \div 4$ .

**First, Ella partitions 86.**

**She exchanges so that the number becomes 70 and 16.**

**She models the partitioned number using place-value counters.**

**Then she divides the tens by 7 and the ones by 7.**

**She has 2 left over and finds that  $86 \div 7 = 12$  remainder 2.**



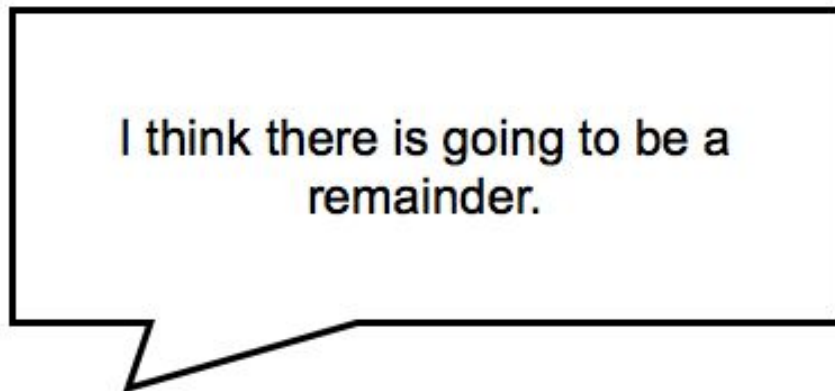


## To be able to divide two-digit numbers by single digits

### Talking Time:

Charlotte wants to divide 79 by 6.

She says,



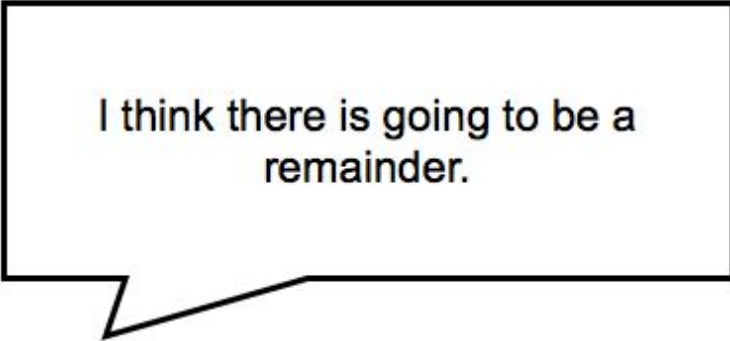
How does Charlotte know this before she has started?

## To be able to divide two-digit numbers by single digits

### Talking Time:

Charlotte wants to divide 79 by 6.

She says,



I think there is going to be a remainder.

How does Charlotte know this before she has started?

**Charlotte may know this because she knows that all multiples of 6 are even. 79 is an odd number, so there will be a remainder.**

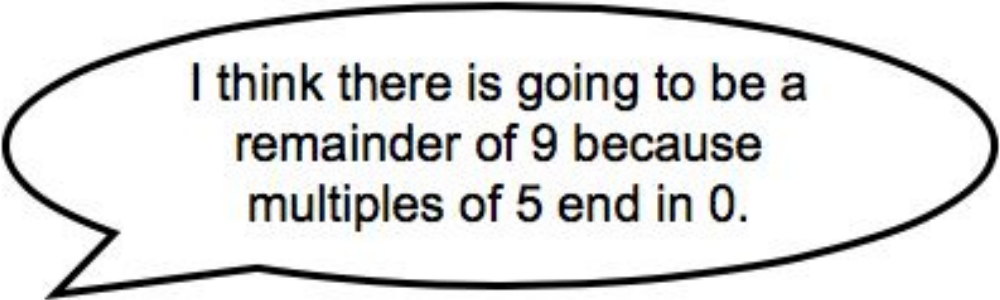
**Charlotte may also have partitioned 79 into 60 and 19 and she can see that – although 60 divides into 6 easily – the number 19 does not and so there will be a remainder.**

## To be able to divide two-digit numbers by single digits

### Activity 2:

Sam wants to divide 69 by 5.

He says,



I think there is going to be a remainder of 9 because multiples of 5 end in 0.

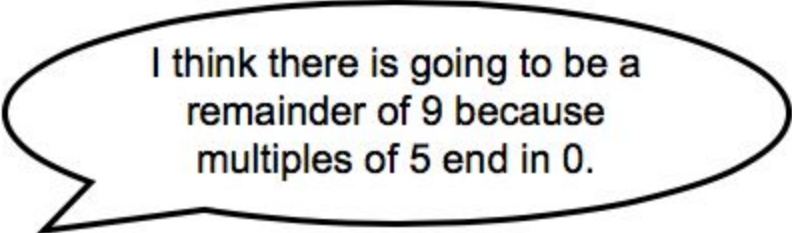
Is Sam correct? Explain your answer to a friend.

## To be able to divide two-digit numbers by single digits

### Activity 2:

Sam wants to divide 69 by 5.

He says,



I think there is going to be a remainder of 9 because multiples of 5 end in 0.

Is Sam correct? Explain your answer to a friend.

**No. Sam is not correct.**

**Multiples of 5 also end in 5s and the last multiple of 5 before 69 ends in a 5 not a 0 (it is 65).**

**So the remainder will be 4, not 9.**

**$69 \div 5 = 13$  remainder 4.**

# To be able to divide two-digit numbers by single digits

## Activity 3:

Use partitioning and place-value counters to solve these division calculations.

a)  $53 \div 4$

b)  $94 \div 9$

c)  $84 \div 6$

d)  $43 \div 3$

e)  $87 \div 7$

Have a go at these questions using the quiz on Google Classrooms!

*Can you predict which of these calculations will have a remainder? How do you know?*