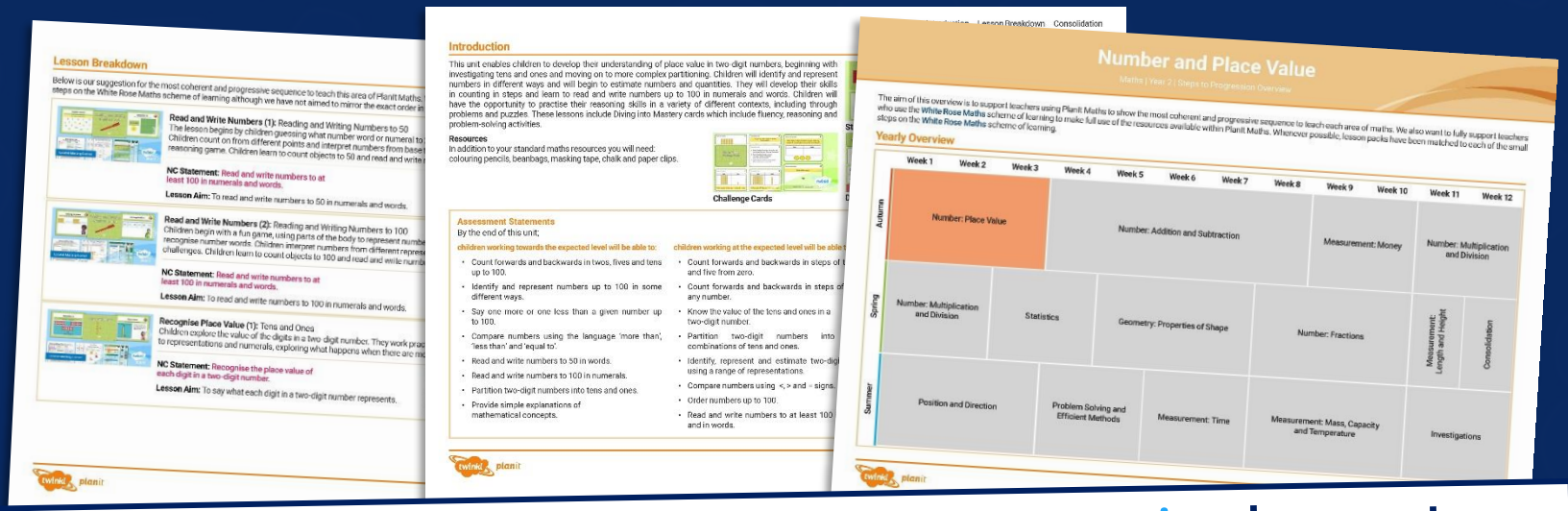
Maths

Number and Place Value

Need a coherently planned sequence of lessons to complement this resource?



See our [Number and Place Value Steps to Progression] document.

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Partitioning

Aim

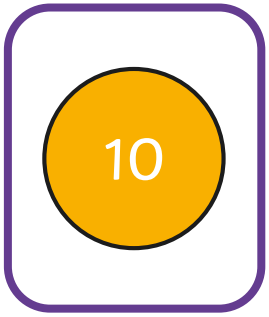
- To partition numbers into tens and ones.

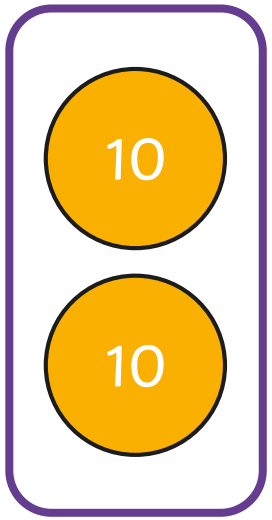
Success Criteria

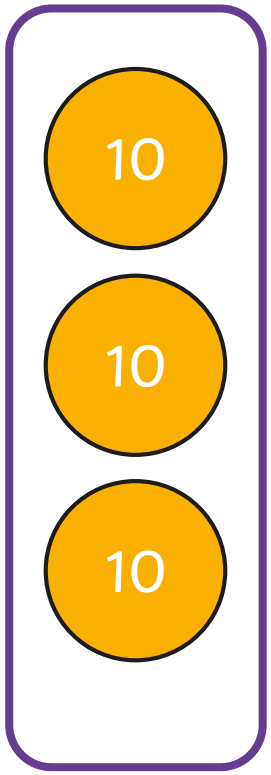
- I can say what the value of each digit in a two-digit number is.
- I can write two-digit numbers as tens and ones.
- I can write two-digit numbers in the expanded form.
- I can show two-digit numbers as tens and ones using equipment.

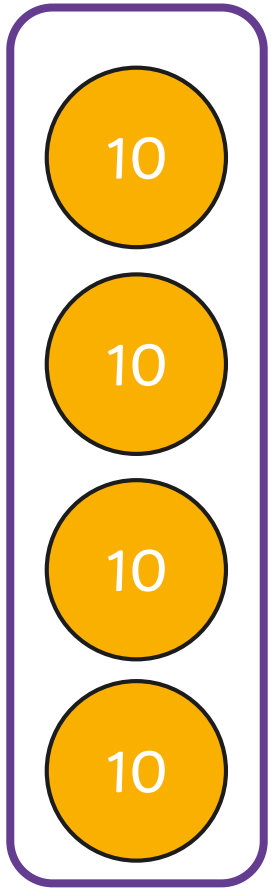
Remember It

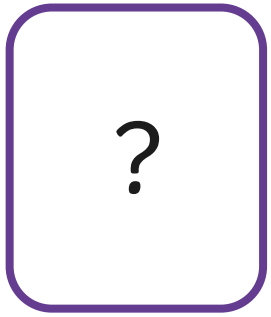
What should come next? How do you know?





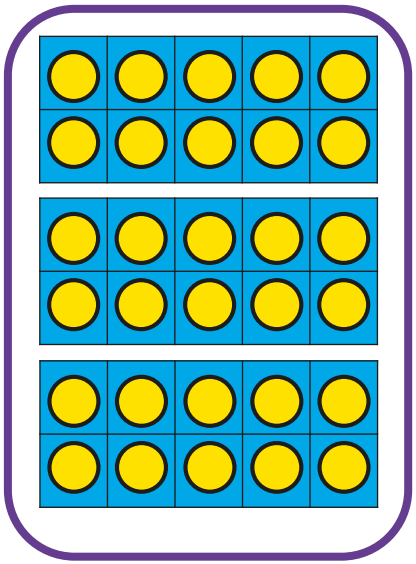


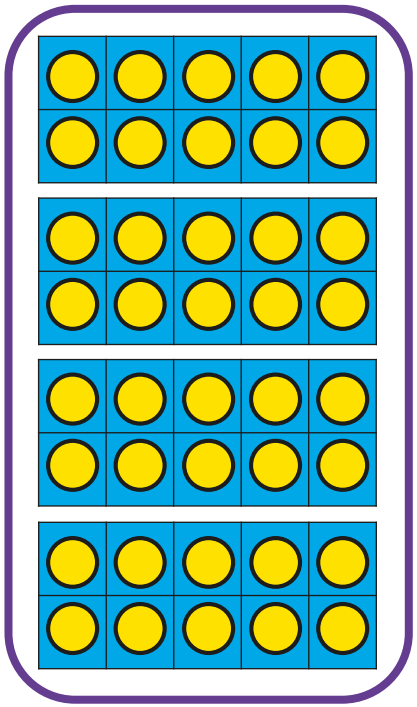


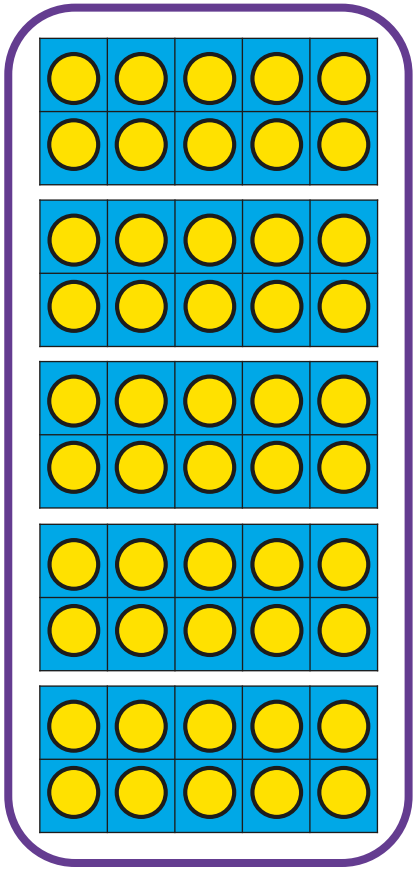


Remember It

What should come next? What wouldn't come next?







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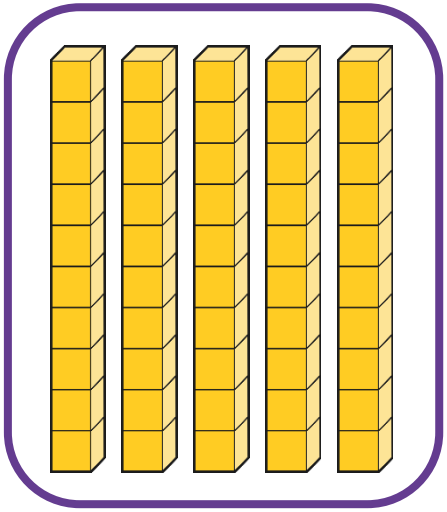
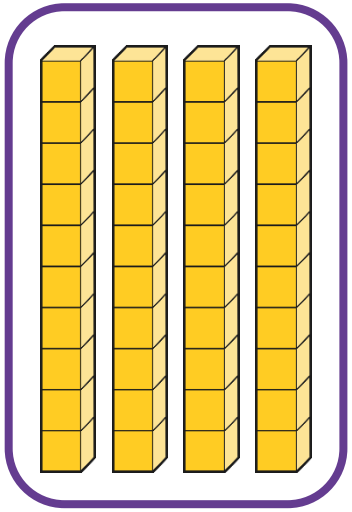
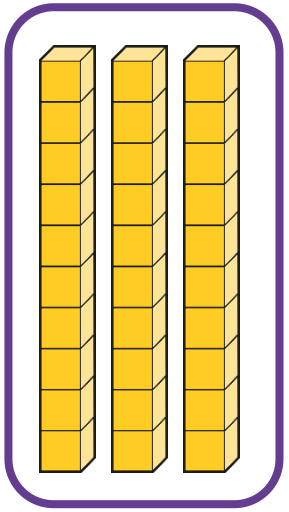
Remember It

What should come next? Explain your answer.







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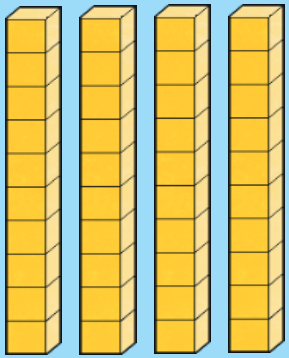
Partitioning

We can show the number 42 in lots of different ways.

The digit 4 is in the tens place. It stands for 4 tens.

42

The digit 2 is in the ones place. It stands for 2 ones.

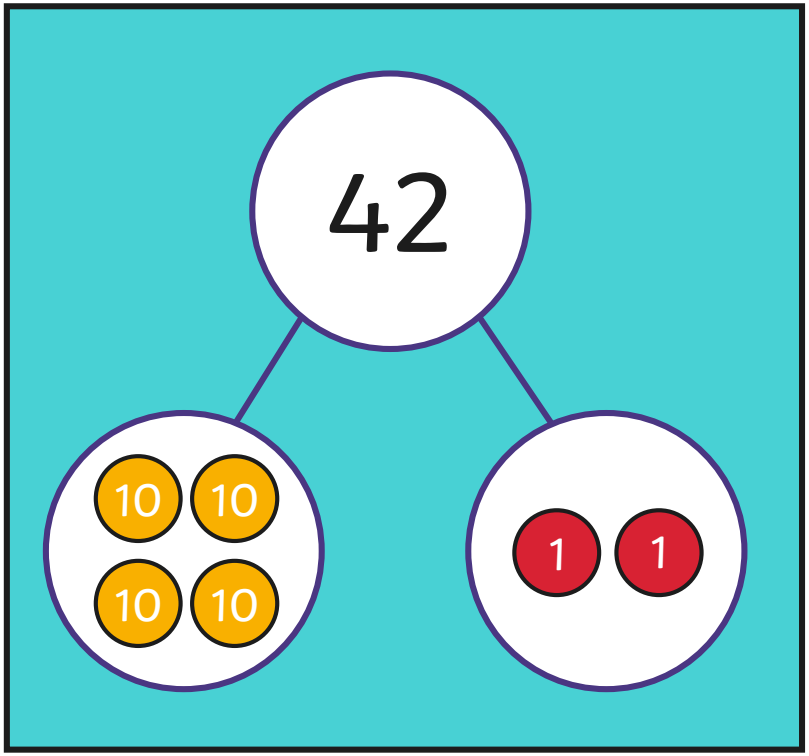
tens	ones
4	2
	

Splitting a number up like this is called partitioning.

Partitioning

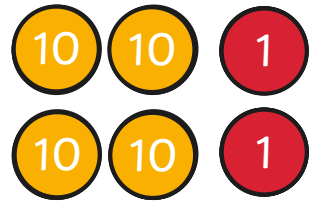
When we partition a two-digit number, we can split the numbers into tens and ones.

We can use partitioning to help us represent numbers in addition and subtraction equations.



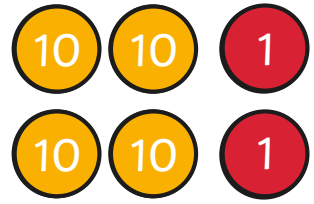
40 + 2 = 42
2 + 40 = 42

42 = 40 + 2
42 = 2 + 40



42 – 2 = 40
42 – 40 = 2

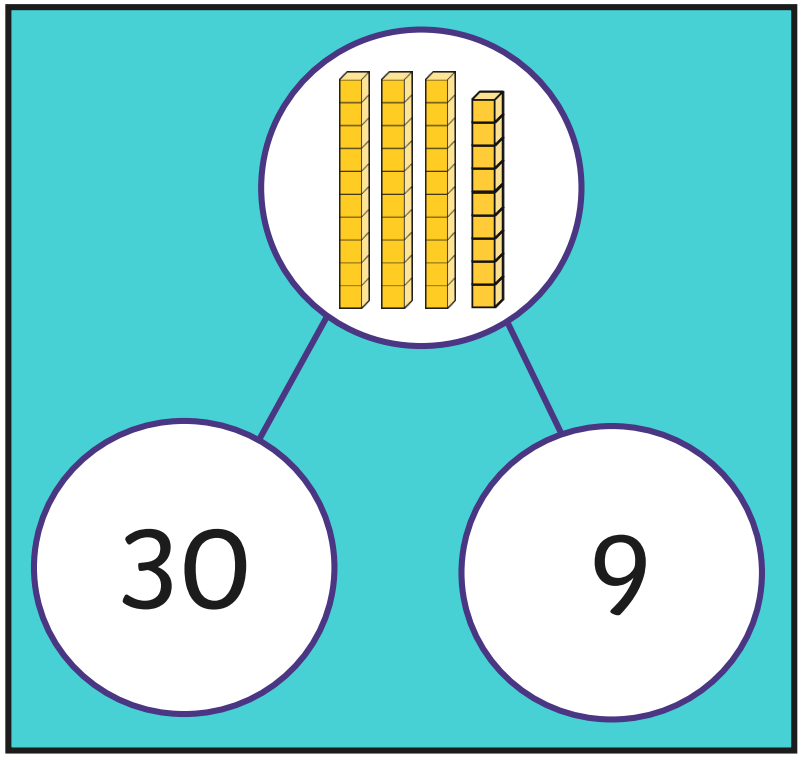
40 = 42 – 2
2 = 42 – 40



Partitioning

Whole Class

Can you partition this number and represent it as addition and subtraction equations?



30 + 9 = 39
9 + 30 = 39

39 = 30 + 9
39 = 9 + 30

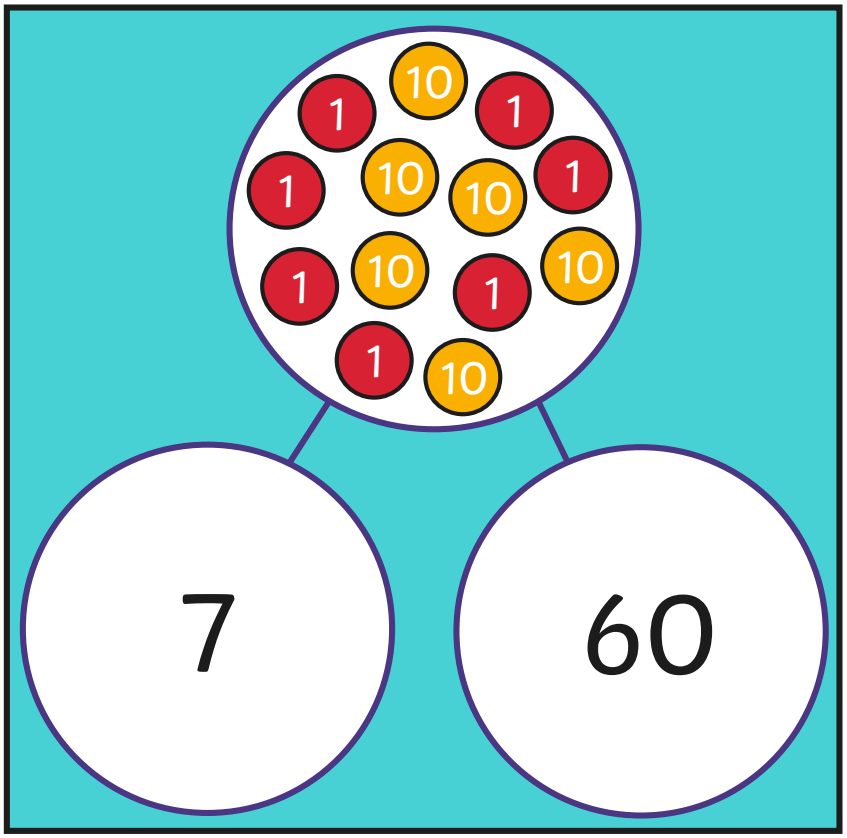
39 – 30 = 9
39 – 9 = 30

9 = 39 – 30
30 = 39 – 9

Partitioning

Whole Class

Can you partition this number and represent it as addition and subtraction equations?



60 + 7 = 67
7 + 60 = 67

67 = 60 + 7
67 = 7 + 60

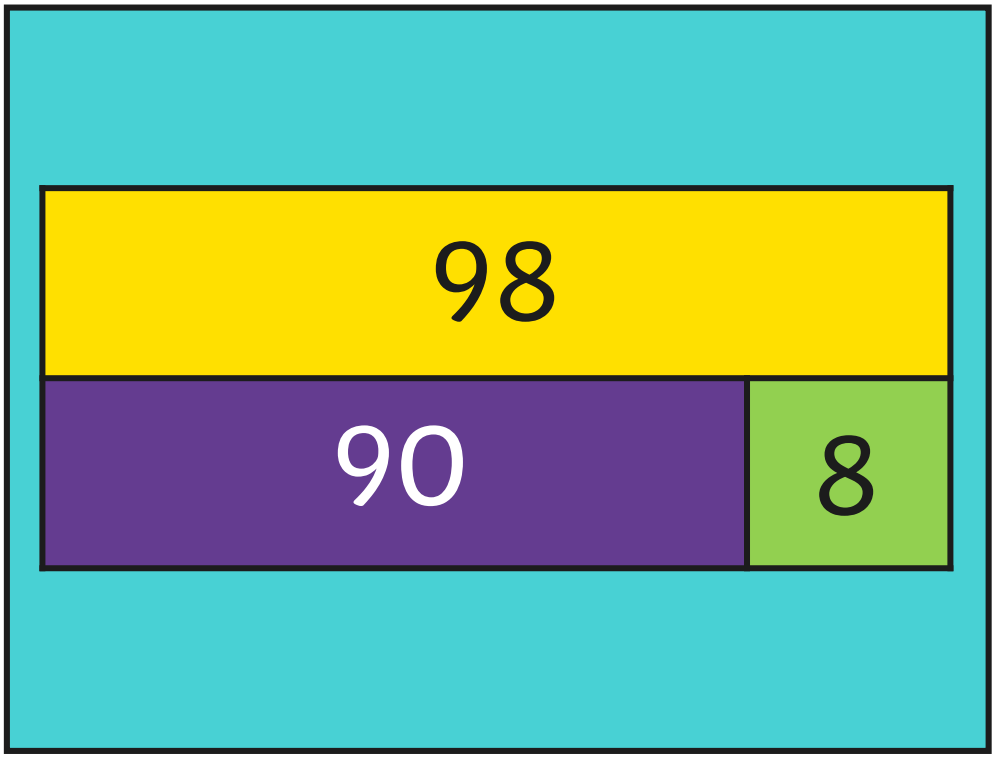
67 – 60 = 7
67 – 7 = 60

7 = 67 – 60
60 = 67 – 7

Partitioning

Whole Class

Can you partition this number and represent it as addition and subtraction equations?



90 + 8 = 98
8 + 90 = 98

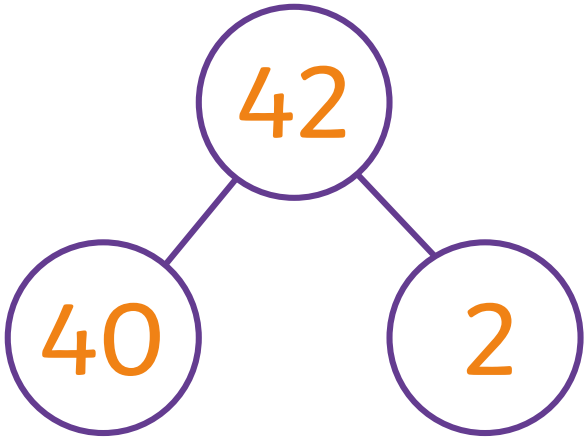
98 = 90 + 8
98 = 8 + 90

98 – 90 = 8
98 – 8 = 90

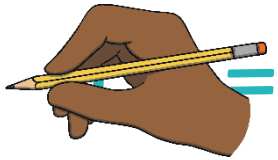
8 = 98 – 90
90 = 98 – 8

Expanded Form

We know that 42 has 4 tens and 2 ones.



We know we can write it out like this:



$= 40 + 2$

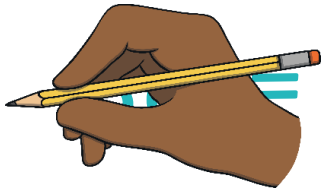
When we show the tens and ones like this, it is called the expanded form.

Expanded Form

Whole Class

Can you write the following number using the expanded form?

36



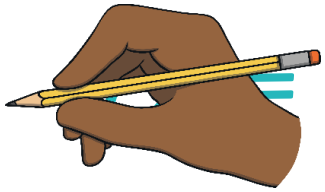
= 30 + 6

Expanded Form

Whole Class

Can you write the following number using the expanded form?

72



= 70 + 2

Expanded Form

Can you write the following numbers using the expanded form?

30

67

21

49

53

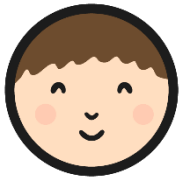
99

65

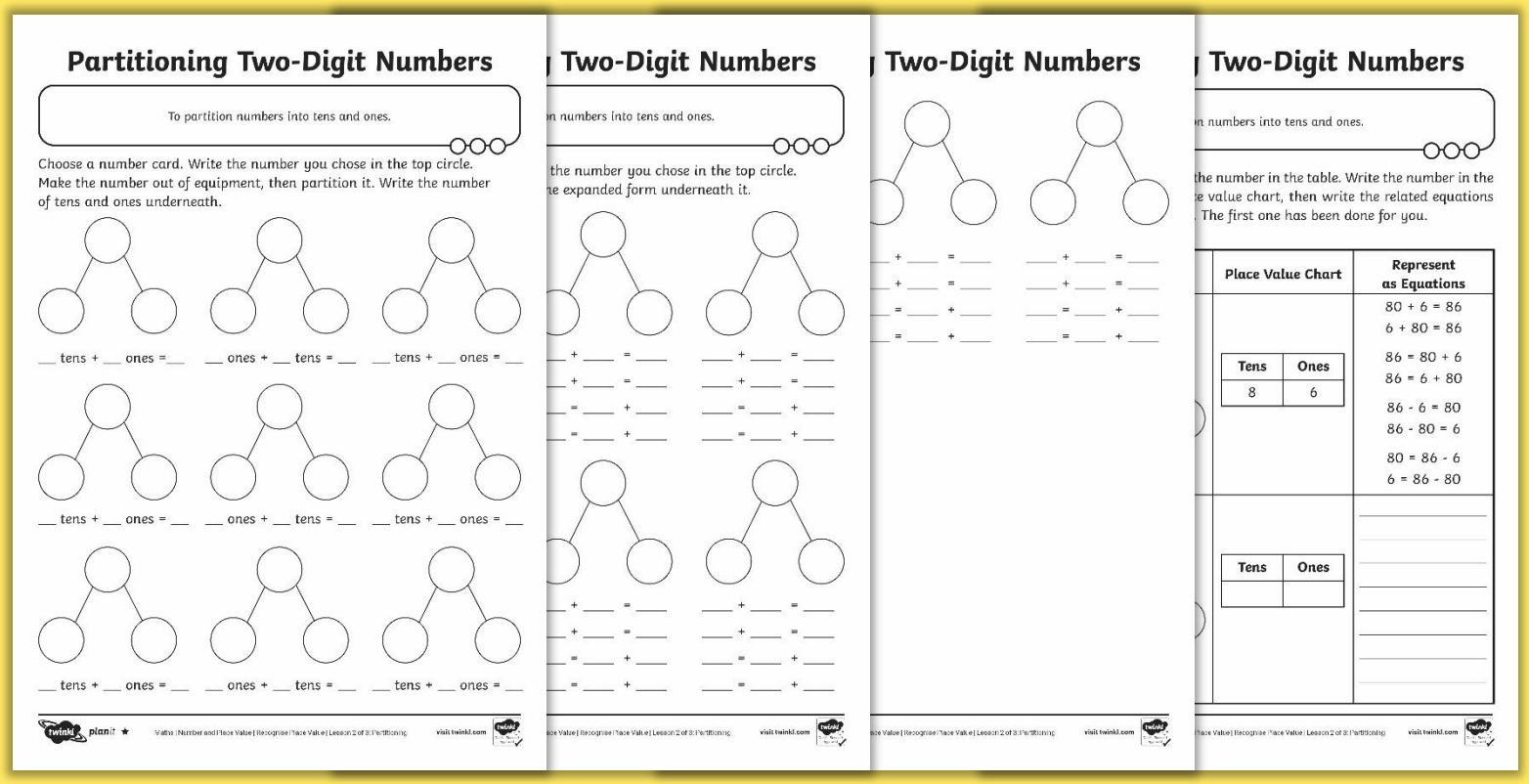
88

33

Partitioning Activity



Can you complete the **Partition Two-Digit Numbers Activity Sheet**?



Partitioning Two-Digit Numbers

To partition numbers into tens and ones.

Choose a number card. Write the number you chose in the top circle.
Make the number out of equipment, then partition it. Write the number of tens and ones underneath.

__ tens + __ ones = __ __ ones + __ tens = __ __ tens + __ ones = __

__ tens + __ ones = __ __ ones + __ tens = __ __ tens + __ ones = __

__ tens + __ ones = __ __ ones + __ tens = __ __ tens + __ ones = __

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Two-Digit Numbers

n numbers into tens and ones.

the number you chose in the top circle.
e expanded form underneath it.

Two-Digit Numbers

Two-Digit Numbers

n numbers into tens and ones.

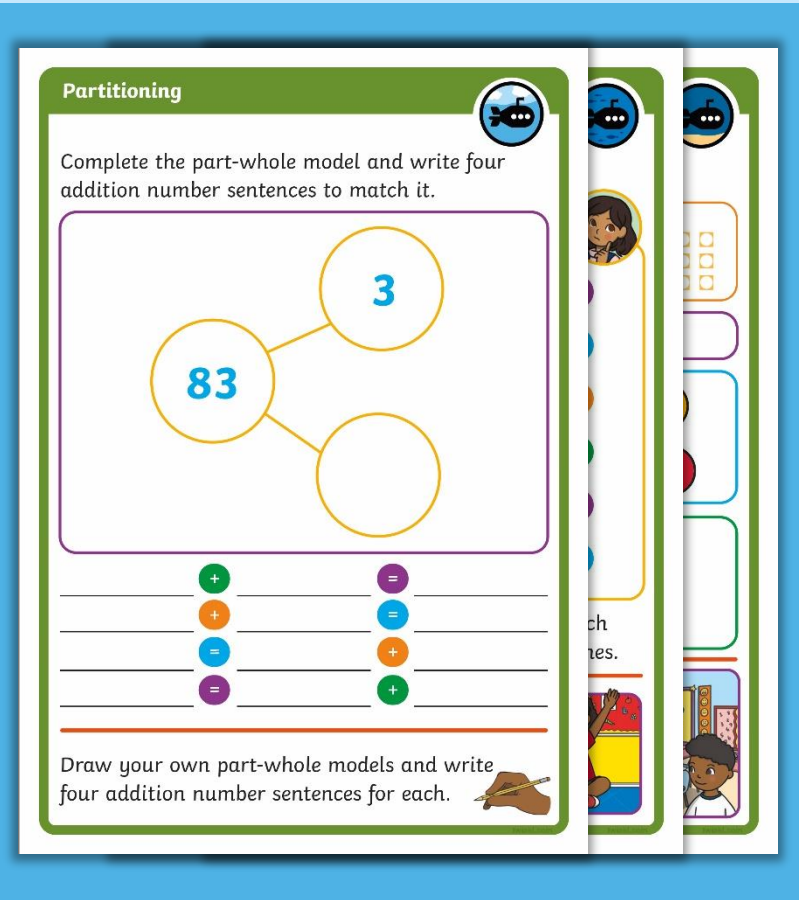
he number in the table. Write the number in the
e value chart, then write the related equations
. The first one has been done for you.

Place Value Chart		Represent as Equations
Tens	Ones	80 + 6 = 86 6 + 80 = 86 86 = 80 + 6 86 = 6 + 80 86 - 6 = 80 86 - 80 = 6 80 = 86 - 6 6 = 86 - 80
8	6	

Tens	Ones

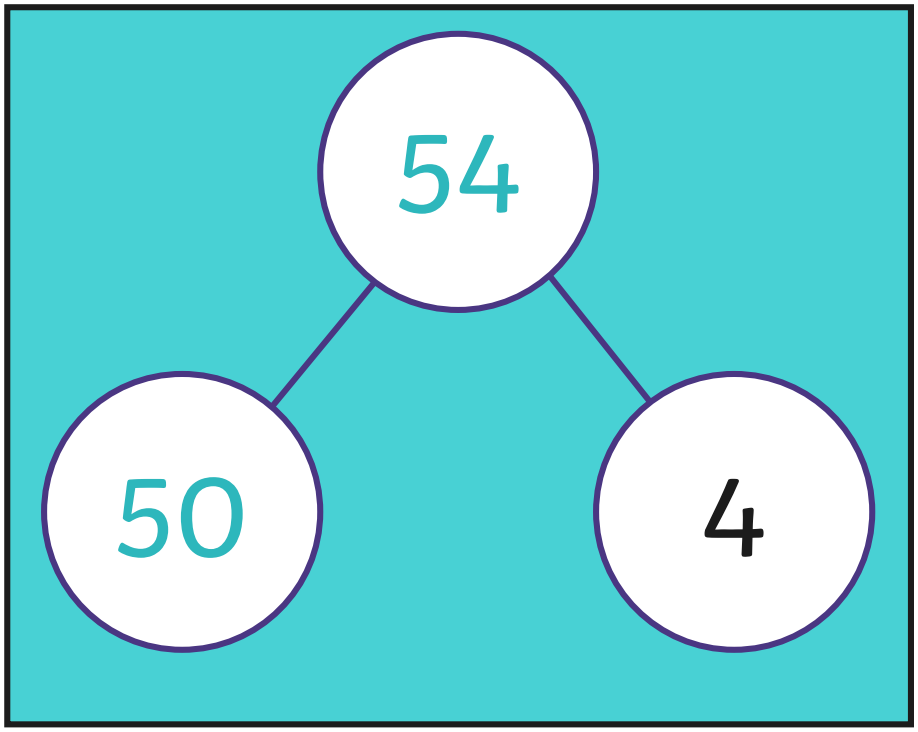
Diving into Mastery

Dive in by completing your own activity!



Missing Numbers

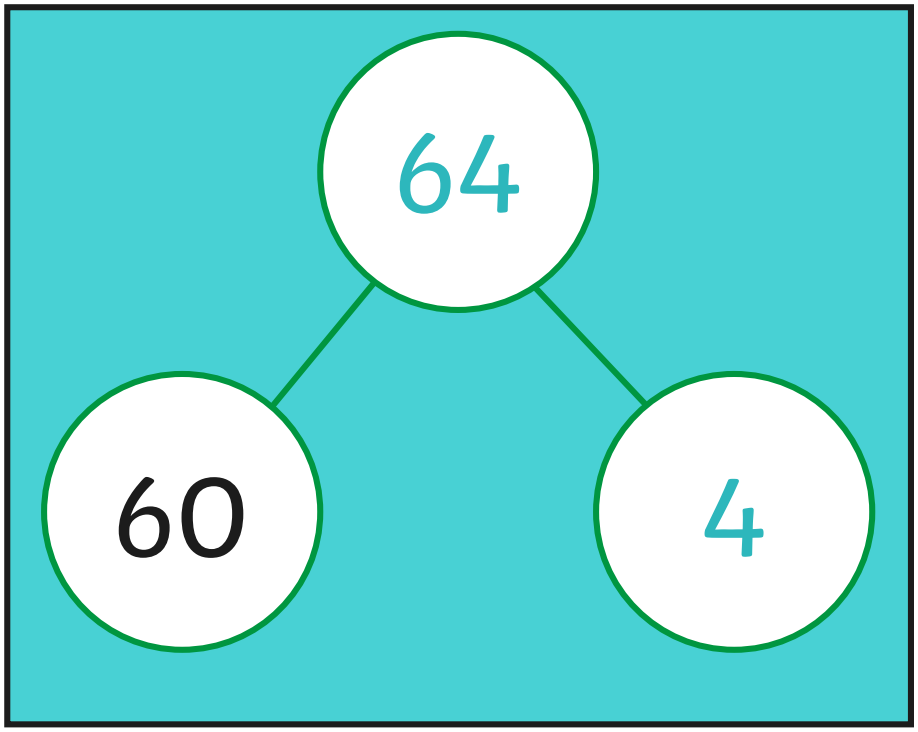
Can you find the missing numbers using these clues?



54 = 5 tens + 4 ones

Missing Numbers

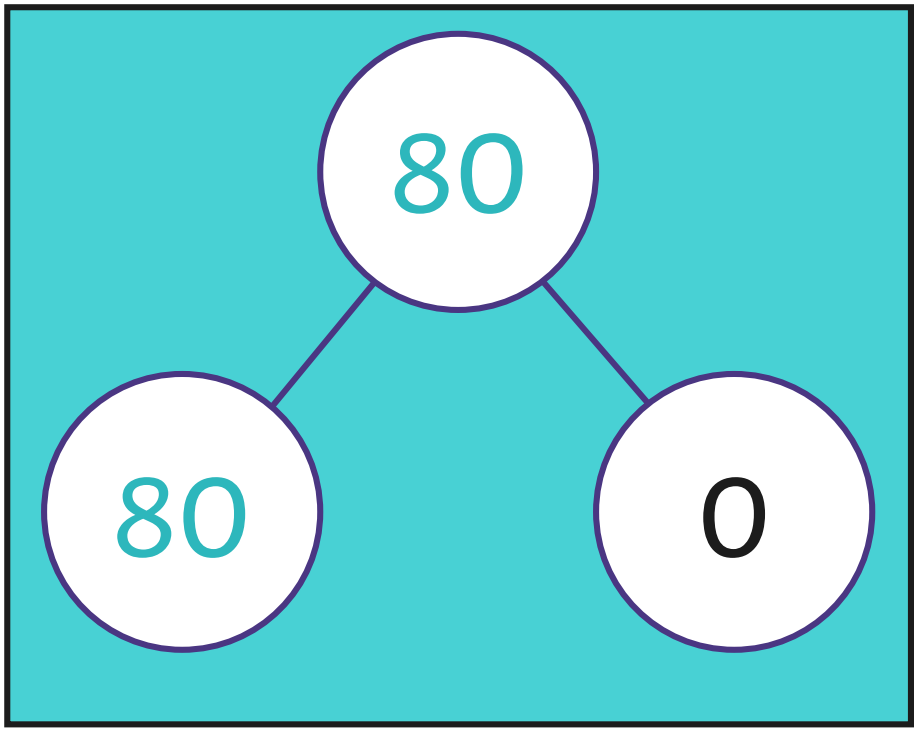
Can you find the missing numbers using these clues?



64 = 6 tens + 4 ones

Missing Numbers

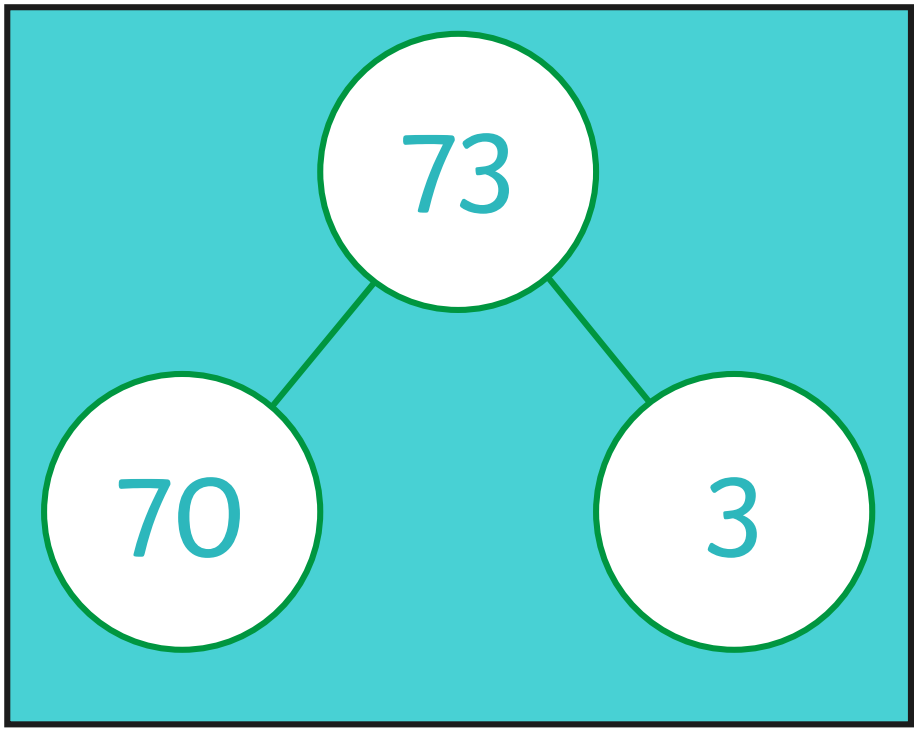
Can you find the missing numbers using these clues?



80 = 8 tens + 0 ones

Missing Numbers

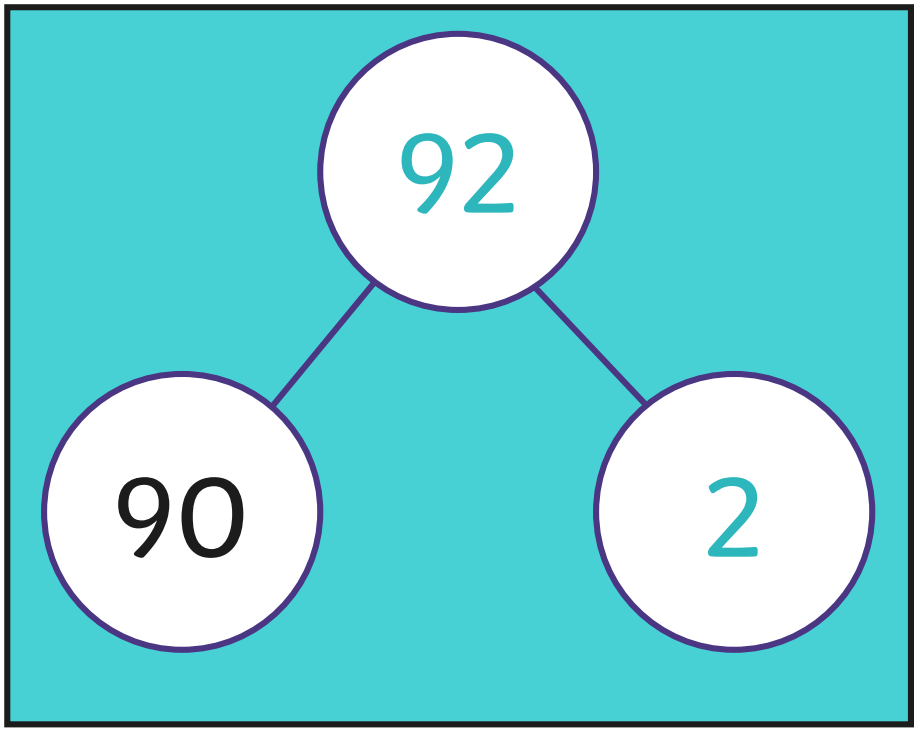
Can you find the missing numbers using these clues?



73 = 7 tens + 3 ones

Missing Numbers

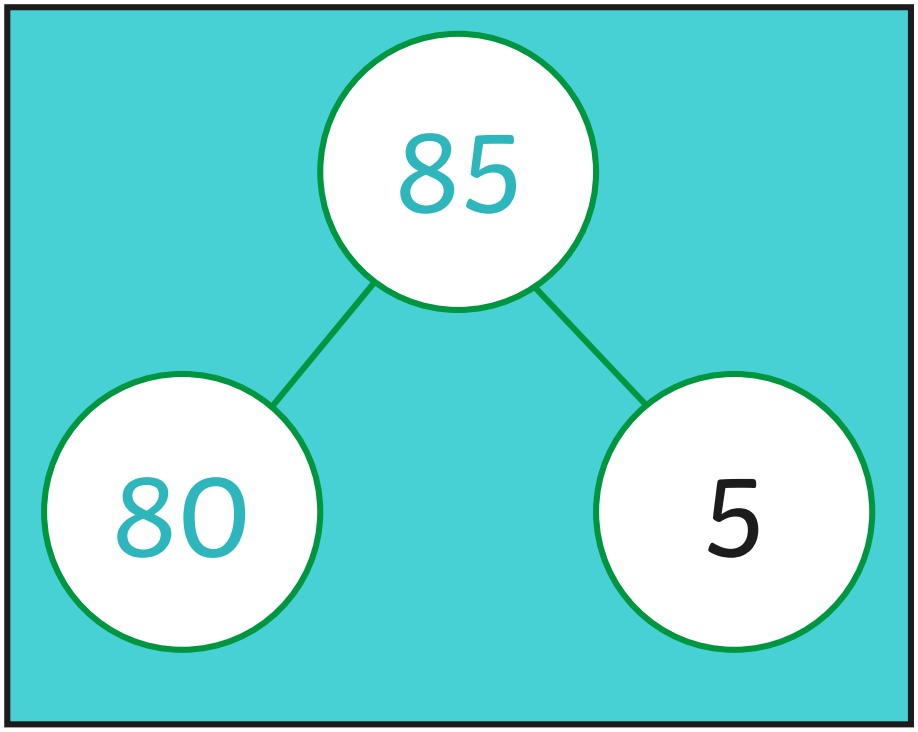
Can you find the missing numbers using these clues?



92 = 9 tens + 2 ones

Missing Numbers

Can you find the missing numbers using these clues?



85 = 8 tens + 5 ones

Aim

- To partition numbers into tens and ones.

Success Criteria

- I can say what the value of each digit in a two-digit number is.
- I can write two-digit numbers as tens and ones.
- I can write two-digit numbers in the expanded form.
- I can show two-digit numbers as tens and ones using equipment.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