



Maths

Number and Place Value

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

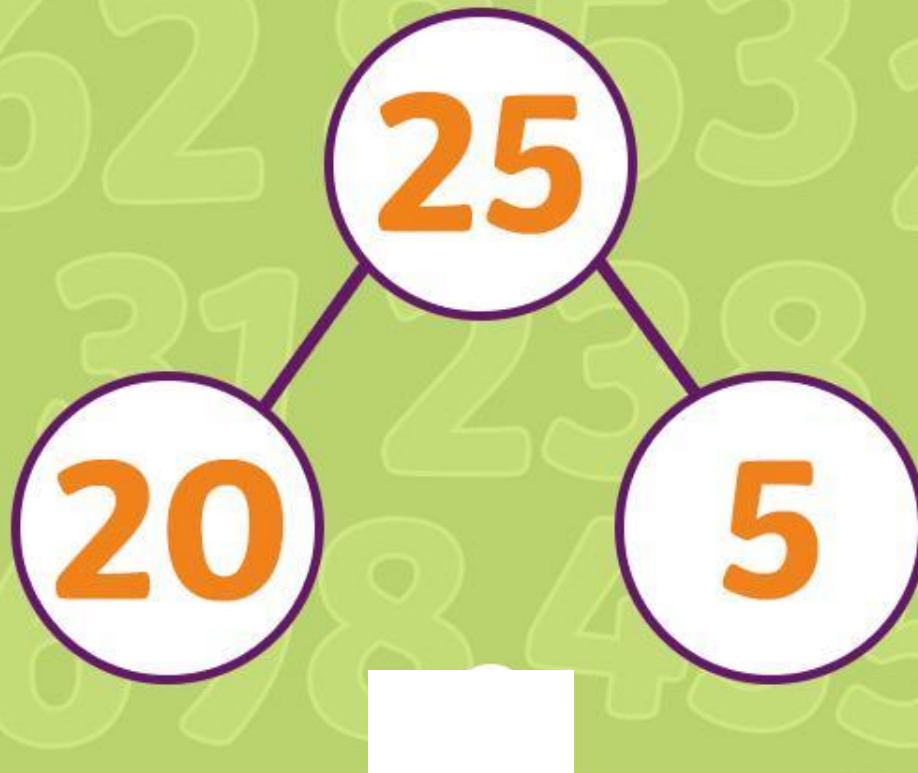


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Partitioning



Aim

- To partition numbers into tens and ones.

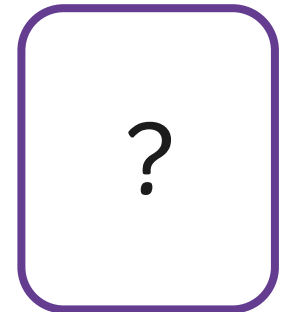
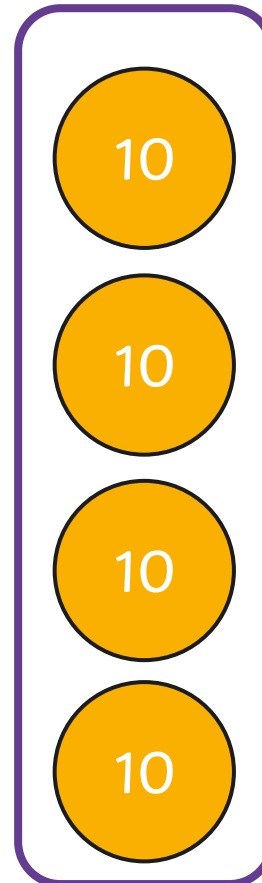
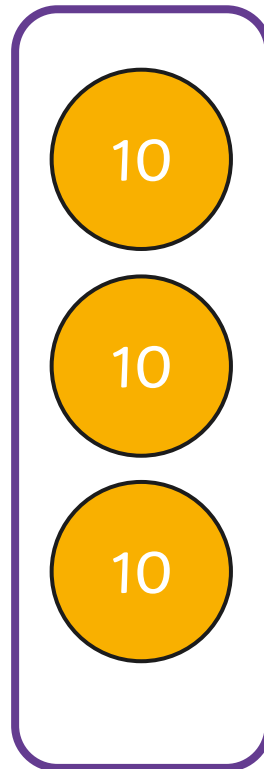
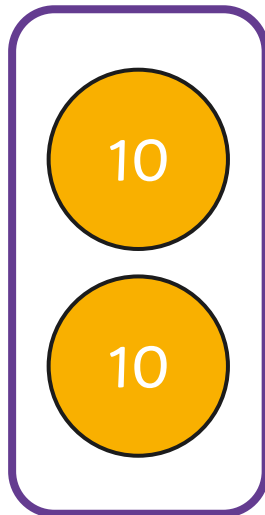
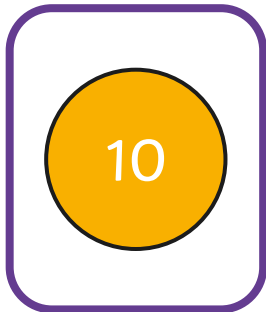
Success Criteria

- 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



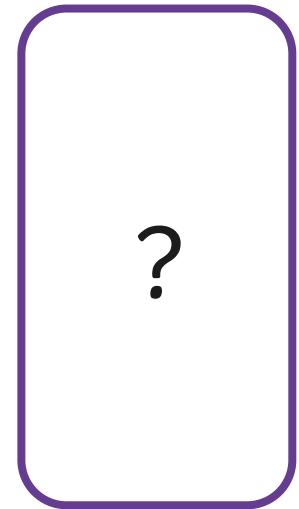
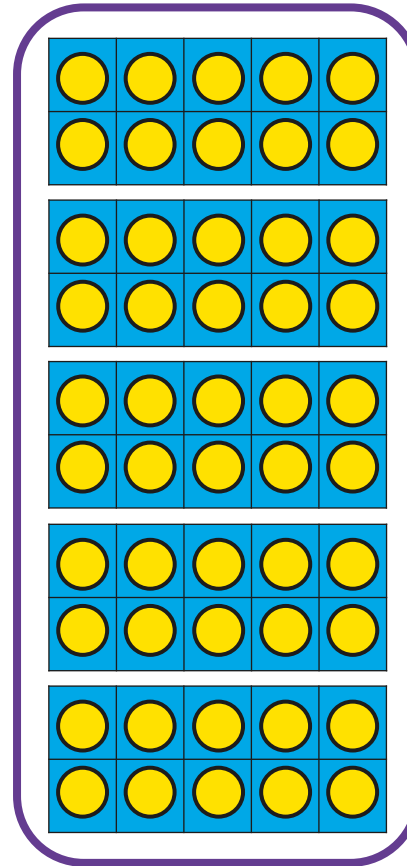
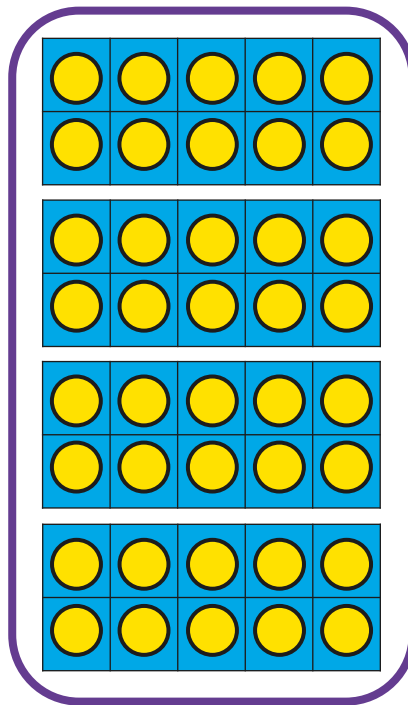
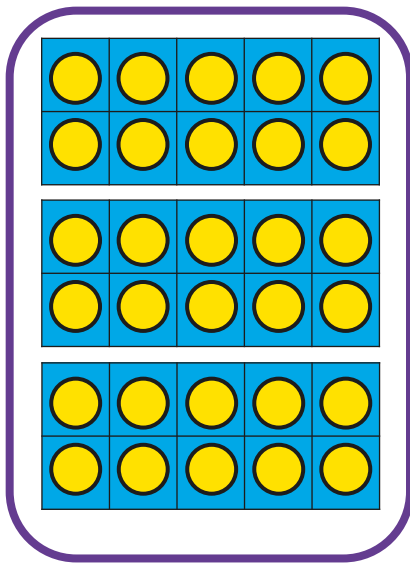
What should come next? How do you know?



Remember It



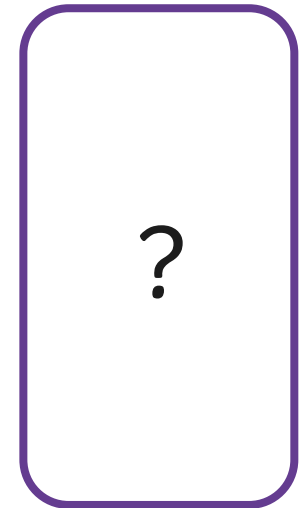
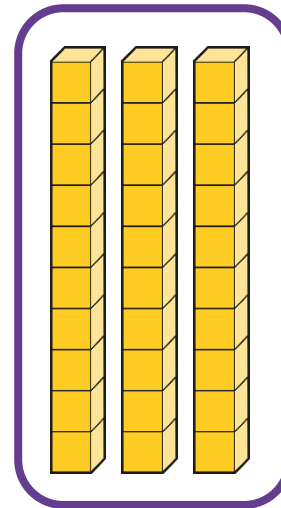
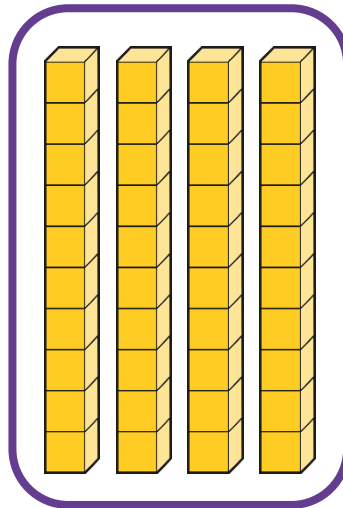
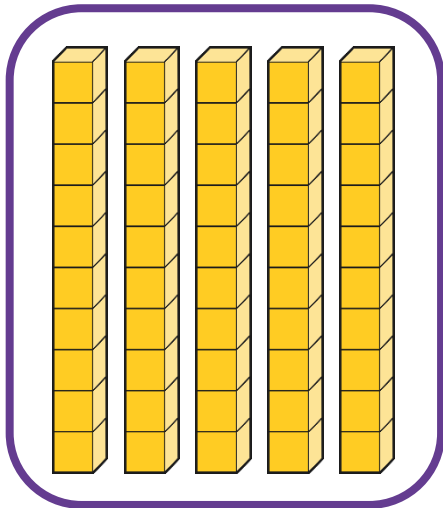
What should come next? What wouldn't come next?



Remember It



What should come next? Explain your answer.



Partitioning

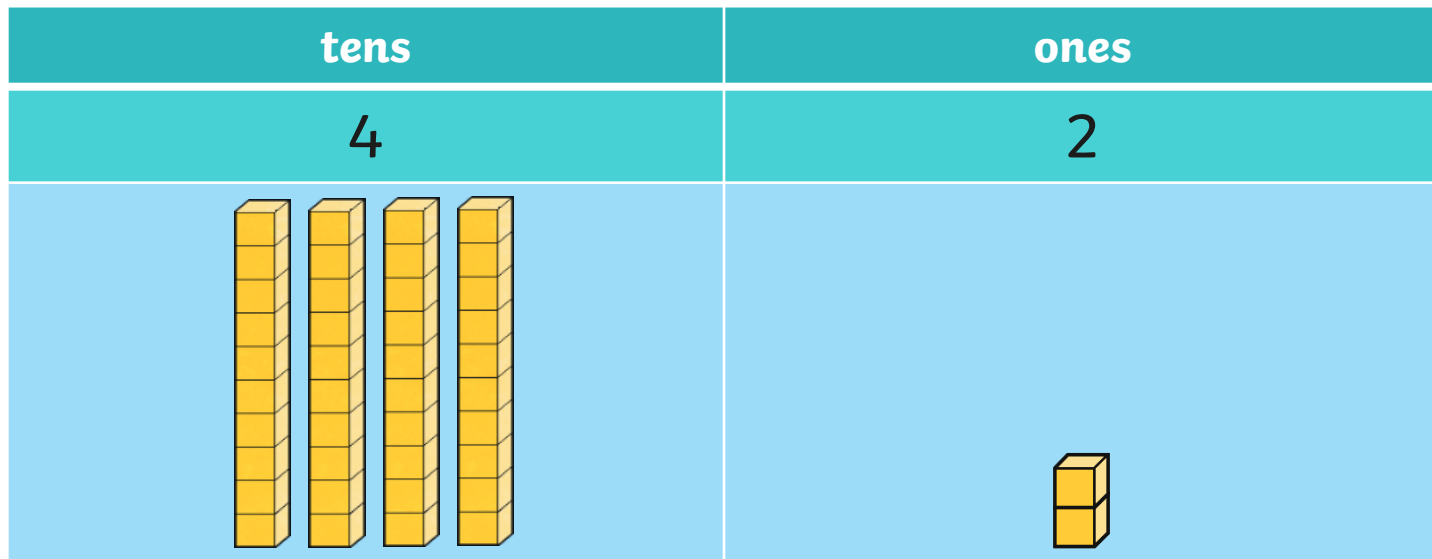


We can show the number 42 in lots of different ways.

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.



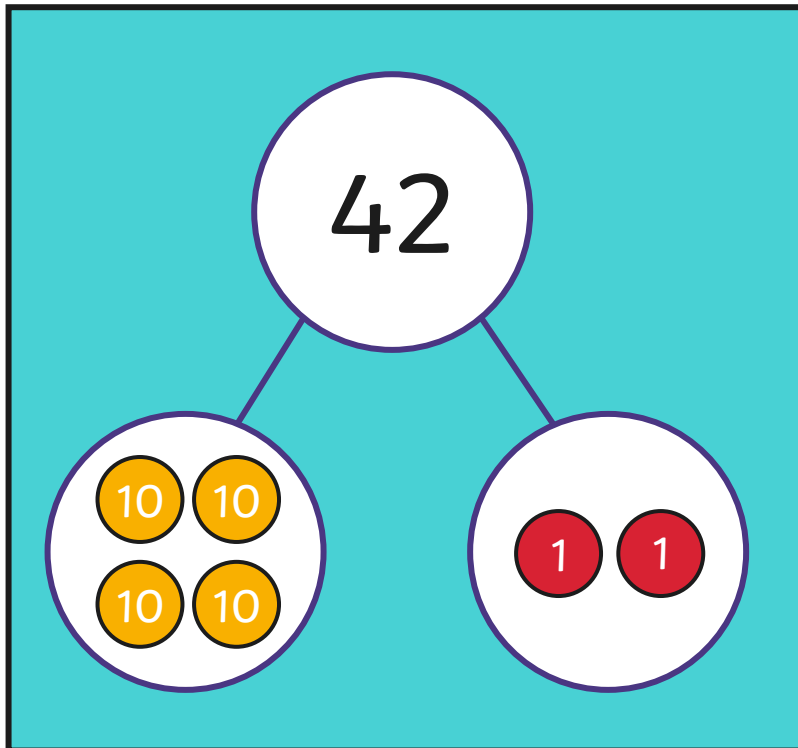
Splitting a number up like this is called partitioning.

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.



$$40 + 2 = 42$$

$$2 + 40 = 42$$

$$42 = 40 + 2$$

$$42 = 2 + 40$$



$$42 - 2 = 40$$

$$42 - 40 = 2$$

$$40 = 42 - 2$$

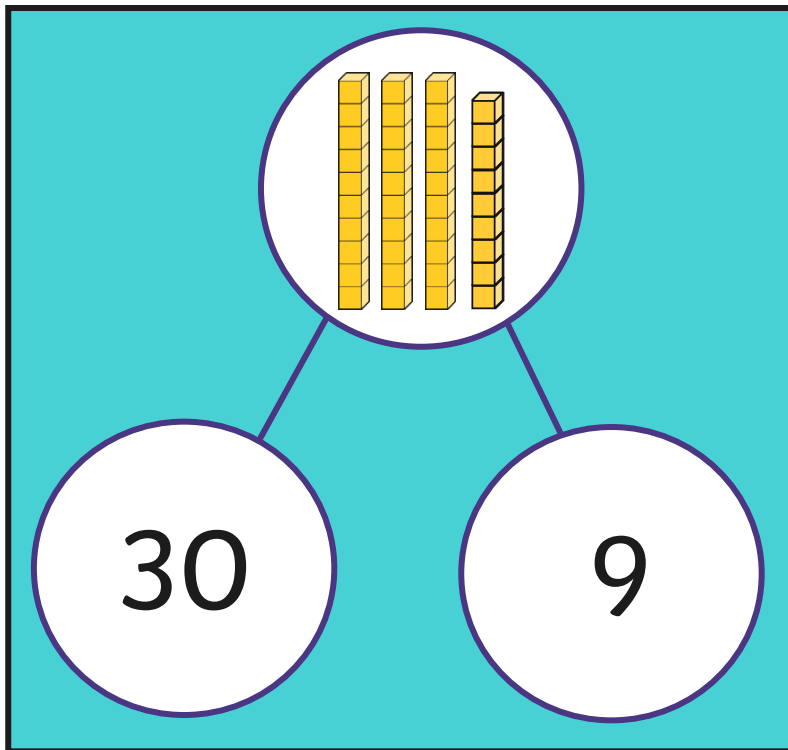
$$2 = 42 - 40$$



Partitioning



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



$$30 + 9 = 39$$

$$9 + 30 = 39$$

$$39 = 30 + 9$$

$$39 = 9 + 30$$

$$39 - 30 = 9$$

$$39 - 9 = 30$$

$$9 = 39 - 30$$

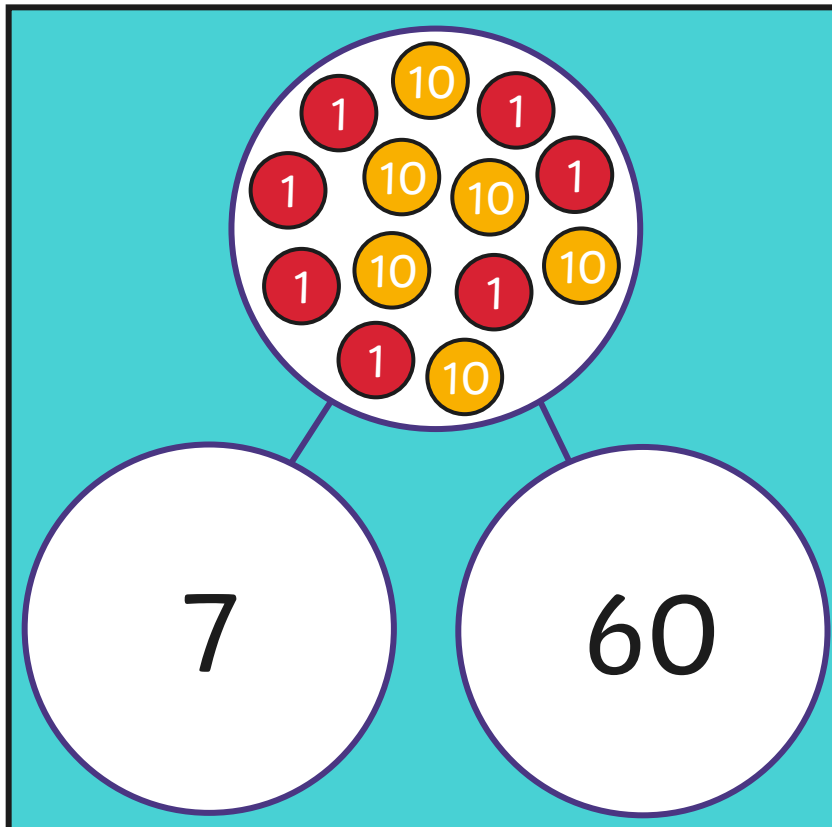
$$30 = 39 - 9$$



Partitioning



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



$$60 + 7 = 67$$

$$7 + 60 = 67$$

$$67 = 60 + 7$$

$$67 = 7 + 60$$

$$67 - 60 = 7$$

$$67 - 7 = 60$$

$$7 = 67 - 60$$

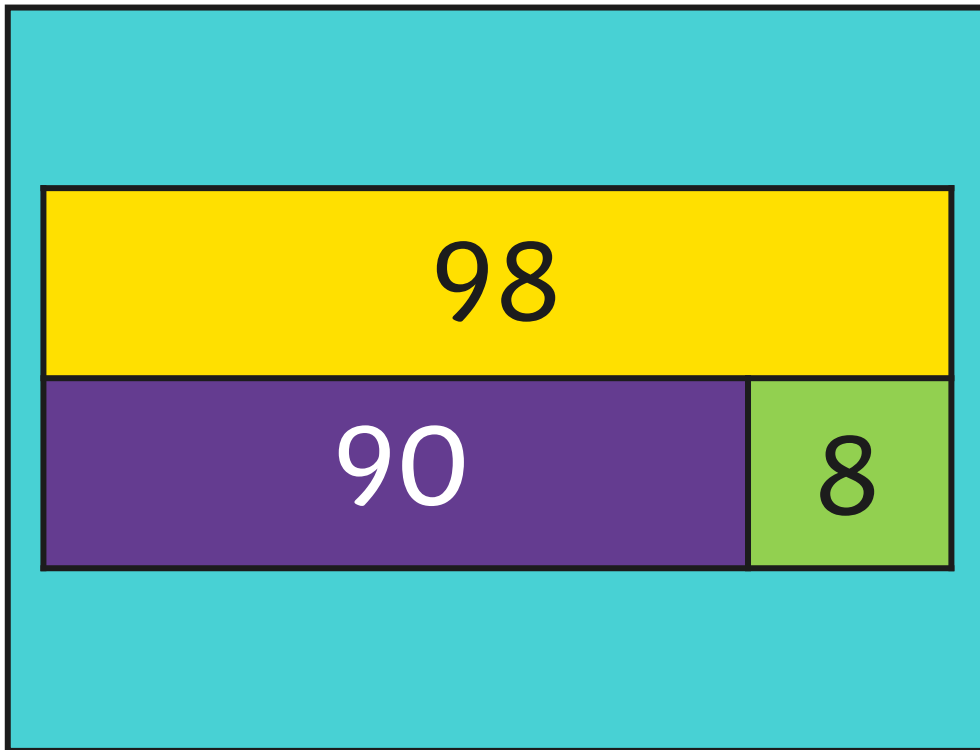
$$60 = 67 - 7$$



Partitioning



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



$$90 + 8 = 98$$

$$8 + 90 = 98$$

$$98 = 90 + 8$$

$$98 = 8 + 90$$

$$98 - 90 = 8$$

$$98 - 8 = 90$$

$$8 = 98 - 90$$

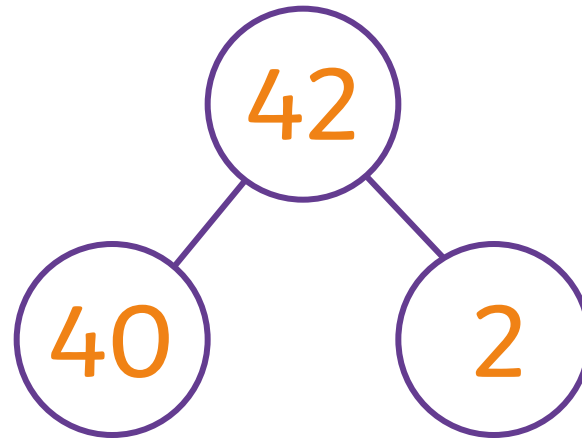
$$90 = 98 - 8$$



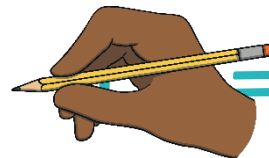
Expanded Form



We know that 42 has 4 tens and 2 ones.



We know we can write it out like this:

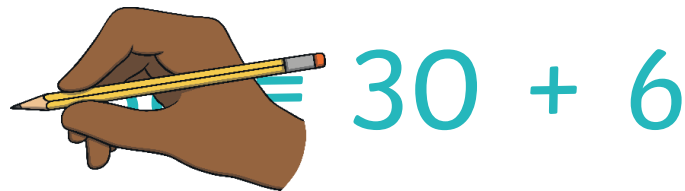
 $= 40 + 2$

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

Expanded Form



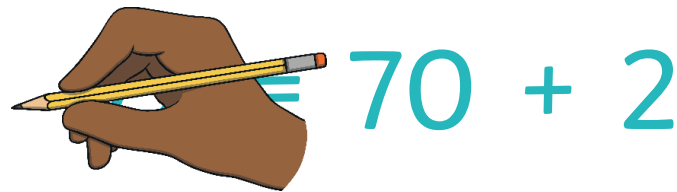
Can you write the following number using the expanded form?



Expanded Form



Can you write the following number using the expanded form?



Expanded Form



Can you write the following numbers using the expanded form?

30

67

21

49

53

99

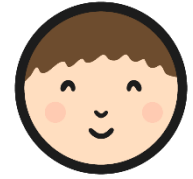
65

88

33



Partitioning Activity

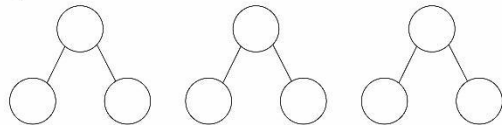


Can you complete the **Partition Two-Digit Numbers Activity Sheet**?

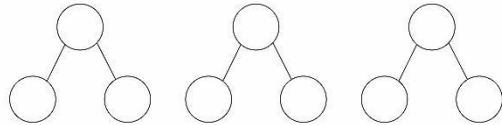
Partitioning Two-Digit Numbers

To partition numbers into tens and ones.

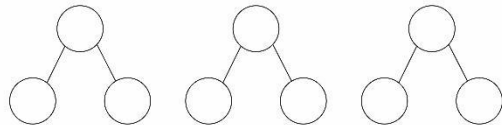
Choose a number card. Write the number you chose in the top circle. Make the number out of equipment, then partition it. Write the number of tens and ones underneath.



___ tens + ___ ones = ___ ___ ones + ___ tens = ___ ___ tens + ___ ones = ___



___ tens + ___ ones = ___ ___ ones + ___ tens = ___ ___ tens + ___ ones = ___

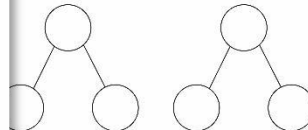


___ tens + ___ ones = ___ ___ ones + ___ tens = ___ ___ tens + ___ ones = ___

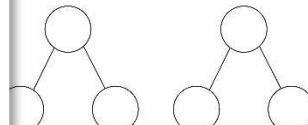
Two-Digit Numbers

Partition numbers into tens and ones.

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

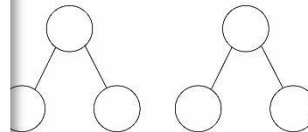


+ ___ = ___ + ___ = ___
 + ___ = ___ + ___ = ___
 = ___ + ___ = ___ + ___
 = ___ + ___ = ___ + ___



+ ___ = ___ + ___ = ___
 + ___ = ___ + ___ = ___
 = ___ + ___ = ___ + ___
 = ___ + ___ = ___ + ___

Two-Digit Numbers



+ ___ = ___ + ___ = ___
 + ___ = ___ + ___ = ___
 = ___ + ___ = ___ + ___
 = ___ + ___ = ___ + ___

Two-Digit Numbers

Partition numbers into tens and ones.

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

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

Diving into Mastery

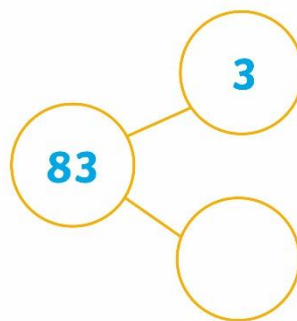
Dive in by completing your own activity!



Partitioning



Complete the part-whole model and write four addition number sentences to match it.



$+$	$=$
$+$	$=$
$=$	$+$
$=$	$+$

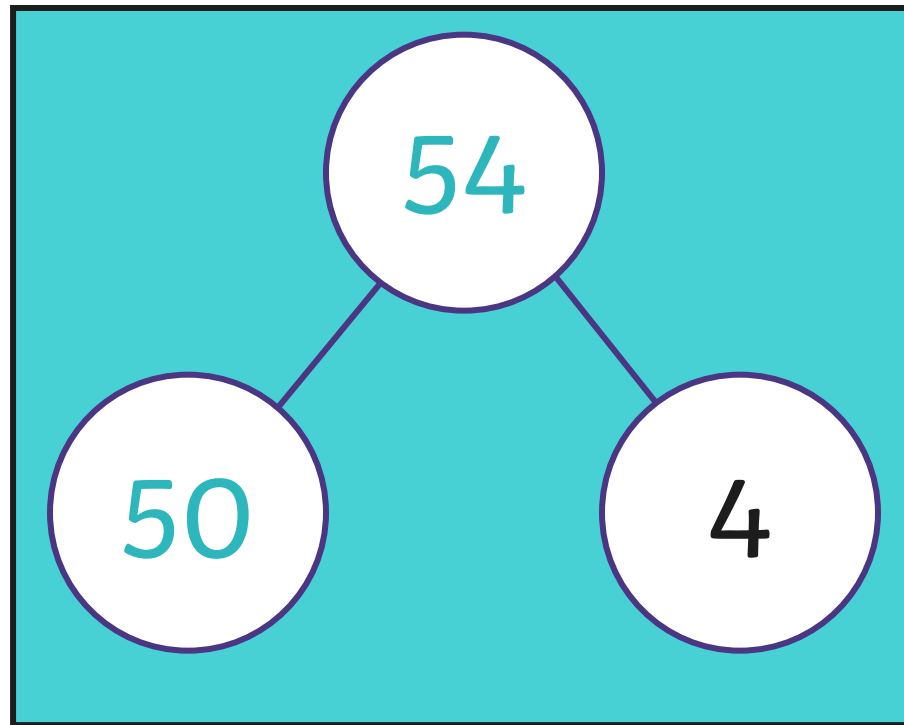
Draw your own part-whole models and write four addition number sentences for each.



Missing Numbers



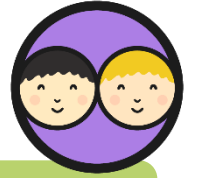
Can you find the missing numbers using these clues?



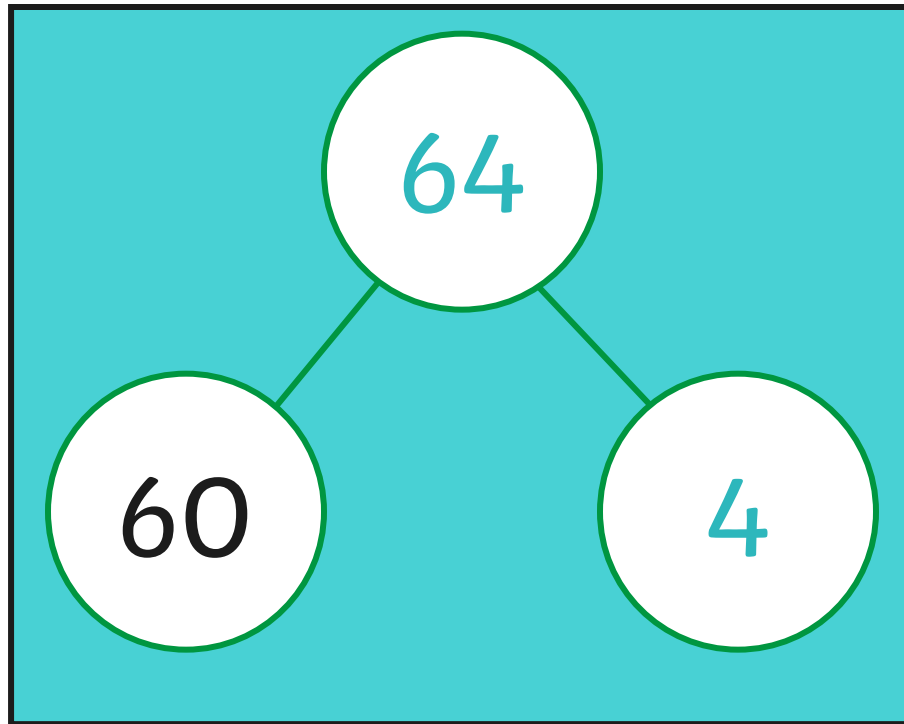
$$\underline{54} = \underline{5} \text{ tens} + \underline{4} \text{ ones}$$



Missing Numbers



Can you find the missing numbers using these clues?



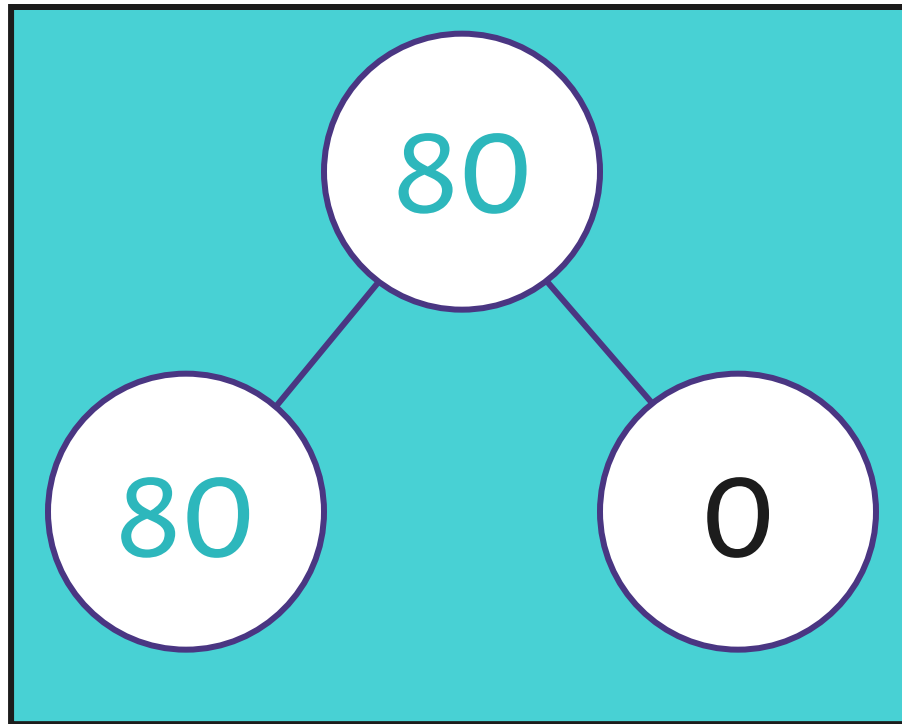
$$\underline{64} = \underline{6} \text{ tens} + \underline{4} \text{ ones}$$



Missing Numbers



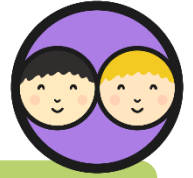
Can you find the missing numbers using these clues?



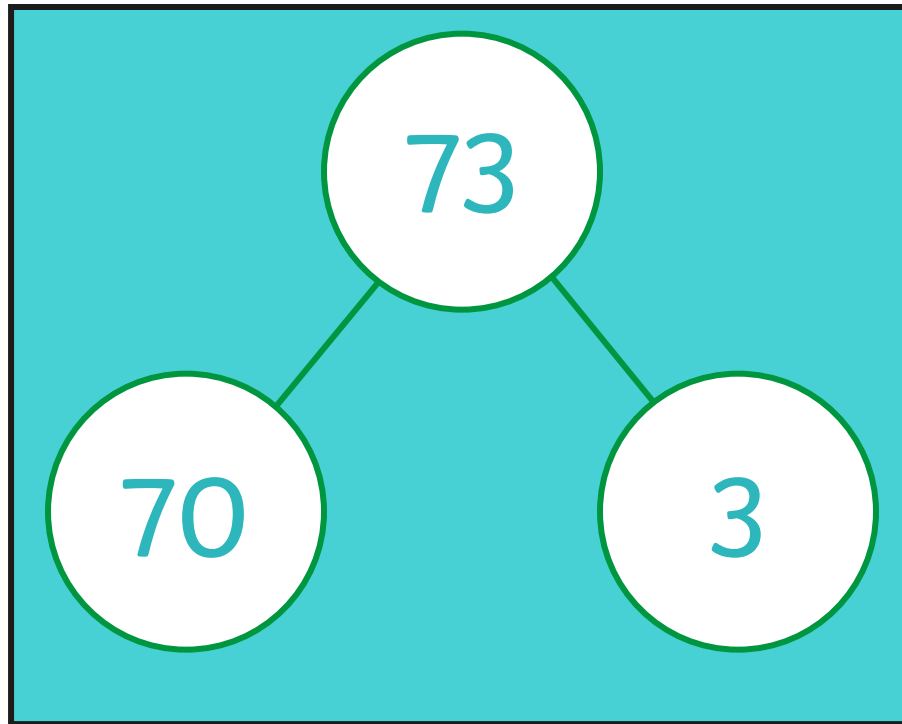
$$\underline{80} = \underline{8} \text{ tens} + \underline{0} \text{ ones}$$



Missing Numbers



Can you find the missing numbers using these clues?



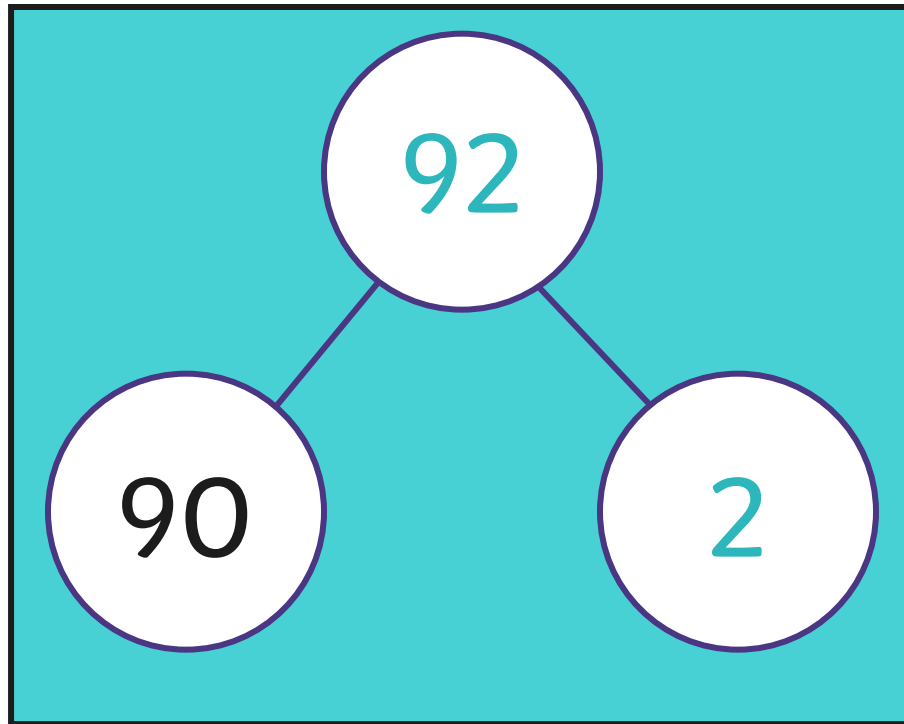
$$\underline{73} = \underline{7} \text{ tens} + \underline{3} \text{ ones}$$



Missing Numbers



Can you find the missing numbers using these clues?



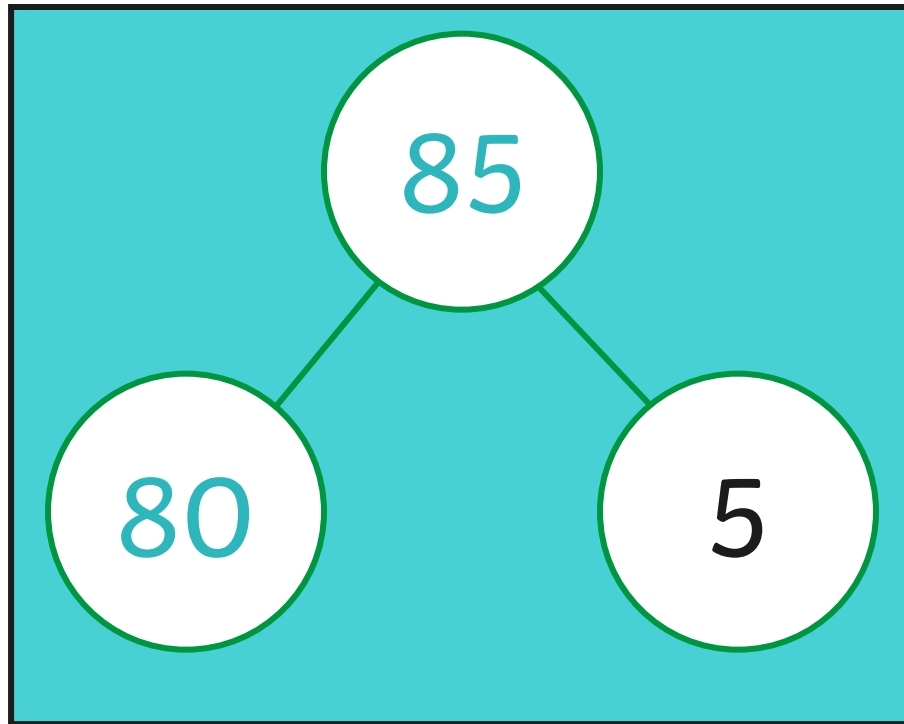
$$\underline{92} = \underline{9} \text{ tens} + \underline{2} \text{ ones}$$



Missing Numbers



Can you find the missing numbers using these clues?



$$\underline{85} = \underline{8} \text{ tens} + \underline{5} \text{ ones}$$



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.

765.395289873
991 6789 78 096
8562 853 2234
309 31 238 948
9 5698 435 -31
63 567 892 2.548

