

Partitioning

Adult Guidance with Question Prompts



Children develop their understanding of partitioning two-digit numbers into tens and ones. In this activity, children use their knowledge of partitioning to complete a part-whole model and write the correct number sentences to support it. They then go on to create their own part-whole models and supporting number sentences.

How can we use the whole and part to work out the missing part?

Use concrete materials or drawings to make three ones.

How many tens can you add or draw until you reach 83?

What number completes the part-whole model?

How can you arrange the numbers in the part-whole model to make four addition calculations?

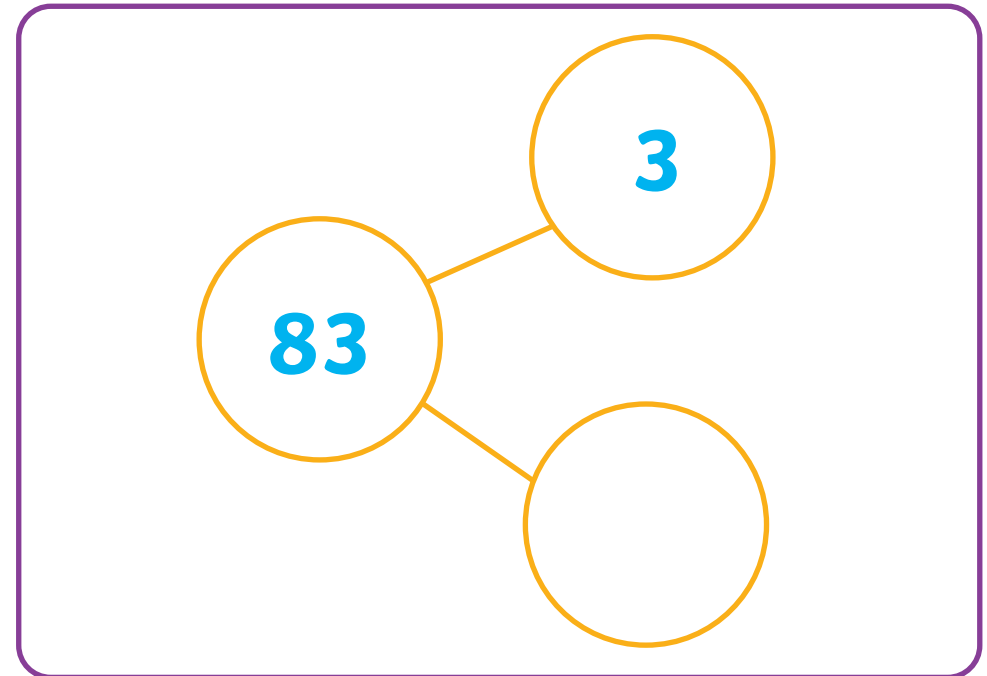
What other numbers can you partition into tens and ones?

Can you use concrete materials or drawings to show these numbers?

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.



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Children develop their understanding of partitioning two-digit numbers into tens and ones. In this activity, children match the tens and ones values to the two-digit number to find the ones that don't match. They use reasoning to explain why they don't match.

What clues are there in the number sentences?

Can we look at the tens digit or the ones digit to help us?

Can you explain any patterns you notice?

Which numbers are easier/more difficult to match to their number sentences? Why?

Can you use concrete materials or drawings to show these numbers?

Now, create your own odd one out challenge for a partner. Remember to have one representation that doesn't match.

Can they spot the ones that don't match?

Can they explain why they don't match?

Partitioning



Match the number sentences to the correct number. Can you find the ones that don't match and explain why they don't match?



$10 + 9$

66

$60 + 6$

41

$60 + 0$

52

$80 + 9$

19

$30 + 1$

60

$50 + 2$

89

Draw part-whole models to represent how each number has been partitioned into tens and ones.

Create your own odd one out challenge for a friend to complete. Can they spot the ones that don't match and explain why?



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Children develop their understanding of partitioning two-digit numbers into tens and ones. In this activity, children use their reasoning to explain what will come next in a tens and ones pattern. They then create their own patterns for a friend to continue.

What clues can you see in the pattern?

Can we look at the tens digit or the ones digit to help us?

Write out each number sentence to help you explore the pattern.

What happens at each stage in the pattern? What is the difference?

What number would complete the part-whole model? How do you know?

What do you notice about the numbers of tens and ones at each stage?

Can you show different ways of representing the next three numbers in the pattern using drawings or concrete materials?

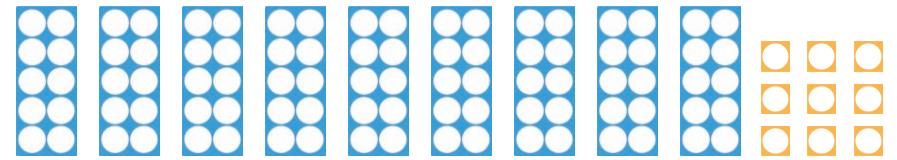
Now, create your own pattern for a partner to complete.

Partitioning

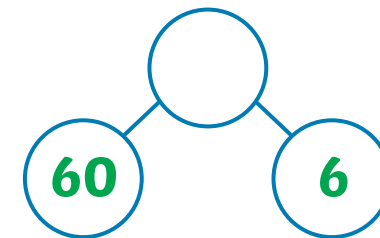
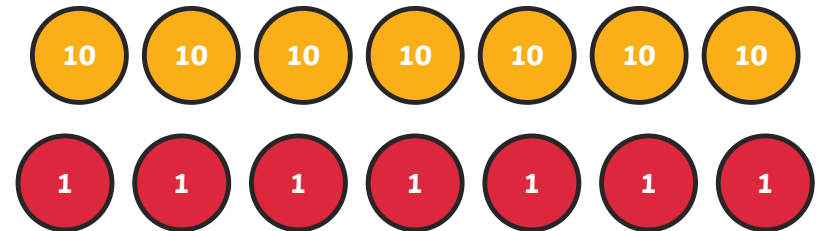


What could come next in the pattern?

Explain how you know.



8 tens and 8 ones



Now, create your own pattern for a friend to complete. Can they say what comes next in the pattern?

