

Challenge cards



Problem solving and reasoning cards:

Match the partitions to the clues.

$80 + 9$

I am the number in between 95 and 99.

$80 + 4$

I have 9 tens and less than 5 ones.

$90 + 8$

The tens digit is less than my ones digit.

$90 + 4$

I am the smallest number.



My number has 4 tens and less than 7 ones.

What could Kat's number be?

List all possibilities.

Complete the table.

Clue	Possible numbers
9 tens and less than 4 ones.	
7 ones and less than 5 tens.	
1 ten and less than 5 ones.	
9 ones and less than 3 tens.	

A digit with no tens is a 1-digit number.

Always, sometimes or never?
Explain your answer.

Sue



I have 7 tens and more than 4 ones.

Mo



I have 7 tens and less than 5 ones.

Who has the biggest number?
Explain how you know.

Complete the sentences.

- Ten tens is equal to _____ hundred.
- Ten ones is equal to 1 _____.
- Two tens is equal to _____ ones.
- Sixty ones is equal to _____ tens.
- Nine tens is equal to 90 _____.

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I am the smallest number.



My number has 4 tens and less than 7 ones.

What could Kat's number be?

List all possibilities.

40, 41, 42, 43, 44, 45, 46.

Complete the table.

Clue	Possible numbers
9 tens and less than 4 ones.	90, 91, 92, 93
7 ones and less than 5 tens.	7, 17, 27, 37, 47
1 ten and less than 5 ones.	10, 11, 12, 13, 14
9 ones and less than 3 tens.	9, 19, 29

A digit with no tens is a 1-digit number.

Always, sometimes or never?
Explain your answer.

Always.

If there are no tens that means there are only ones, therefore a 1-digit number.

Sue



I have 7 tens and more than 4 ones.

Mo



I have 7 tens and less than 5 ones.

Who has the biggest number?
Explain how you know.

Sue has the biggest number as her number is at least 75, whereas the biggest number Mo could have is 74.

Complete the sentences.

- Ten tens is equal to 1 hundred.
- Ten ones is equal to 1 ten.
- Two tens is equal to 20 ones.
- Sixty ones is equal to 6 tens.
- Nine tens is equal to 90 ones.