

# Number Detectives

## Challenge Cards



### Number Detectives

1. Sanjay's number has three tens and five ones. What number does Sanjay have?

Isabelle's number has two tens more than Sanjay's number. What number does Isabelle have?



### Number Detectives

2. Alex says...

My number has four tens.



Which numbers could it be? Give three examples.

Which numbers can't it be? Give three examples.

### Number Detectives

3. Ava says...

You can take 100 away from any three-digit number and still have a three-digit number.



Is she correct? Explain your answer.

## Number Detectives

4. Habib says...



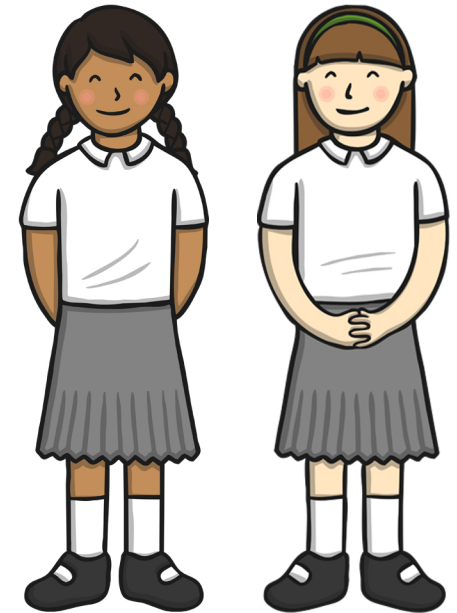
When you add ten to any number, the ones always stay the same.

Is he right?  
Explain your answer.

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## Number Detectives

5. Faith has 27 ones and Jessica has two tens and 9 ones.



Who has the largest number?  
Explain your answer.

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## Number Detectives

6. Chen has four tens and 7 ones. He gives 20 to his friend.

He says...



I still have a number higher than 30.

Is he correct?  
Explain your answer.

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## Number Detectives

7. Isla has 32p. She gets 7 lots of 10p for her birthday.

She says...



I have more than £1.

Is she correct?  
Explain your answer.

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# Number Detectives Answer Sheet

Question	Answer
1	Sanjay has 35. Isabelle has 55.
2	Possible answers: Numbers it could be: 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 140, 141, 142, etc. Numbers it can't be: Any number without a 4 in the tens value.
3	Ava is wrong. $132 - 100 = 32$
4	Habib is correct. The units do not change when you add a multiple of 10 to any number e.g. 7, 17, 27, 37, 47, 57 etc.
5	Faith has 27. Jessica has 29. So Jessica has the highest number.
6	$47 - 20 = 27$ . He is wrong, this is not higher than 30.
7	$32p + 70p = \text{£}1.02$ so she is correct.