

Guess my number

Children use their knowledge of three-digit numbers, rounding, and properties of numbers to work out a mystery number.

Skills practised:

- { Rounding to the nearest 100
- { Using vocabulary and properties of numbers including odd and even

Conjecture: It is possible to demonstrate that there is only one possibility in this context.

What to do:

Children work individually or in pairs.

1. Use these clues to work out Magical Max's mystery three-digit number.

My number is odd.
The first digit is even.
My number rounds to 500 (to the nearest 100).
The three digits add up to 15.
The second digit is more than the first digit.

2. Now try and work out this mystery three-digit number.

My number is even.
The three digits are consecutive (next to each other on the number line).
My number rounds to 200 (nearest 100).
The last digit is double the first.

Try putting several clues together to help, e.g. if a number

URRORRKHUWVBYHONWKEWDETRWWRBUBRO
WRHJKUJVKRWKUNWVWKMROKIBWR"
1RKHBRXWRKWHUOU

Now choose your own mystery three-digit number. See if you can write a set of clues which makes it possible for another child/pair to work out your mystery number.

Aims:

- To list possibilities
- To use logic and properties of number (including

URBYHORWHUOU

Minimum number of calculations expected

N/A

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1. Use these clues to work out Magical Max's mystery three-digit number.

My number is odd.
The first digit is even.
My number rounds to 500 (to the nearest 100).
The three digits add up to 15.
The second digit is two more than the first digit.
What's my number?

2. Now try and work out this mystery three-digit number.

My number is even.
The three digits are consecutive (next to each other on the number line).
My number rounds to 200 (nearest 100).
The last digit is double the first.
What's my number?

Challenge

Choose your own mystery three-digit number. See if you can write a set of clues which makes it possible for another child/pair to work out your mystery number.

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