

Mystery Number challenges (5-minute starter)

Goal

Identify a specific number using a set of clues.

Instructions

Read each clue carefully.

Use every clue to narrow down the possibilities until you identify the mystery number.

Write down the mystery number and be prepared to explain how each clue helped you reach the answer.

The rules may apply the rules in any order to shorten the process.

Challenge 1

My number is a whole number from 20 to 50.

Clues	Detailed solution	Intuitive method
It is even		
It is a multiple of 3		
The sum of its digits is 6		
It is greater than 30		

Challenge 2

My number is a whole number from 50 to 100.

Clues	Detailed solution	Intuitive method
It is a multiple of 5		
It is not a multiple of 10		
The tens digit is 3 more than the units digit		

Challenge 3

My number is a two-digit number.

Clues	Detailed solution	Intuitive method
The number is odd		
It is a multiple of 9		
It is divisible by 7		
Answer		

Challenge 4

My number is a whole number from 40 to 70.

Clues	Solution
It is a multiple of 7.	
The digits add up to 11	