

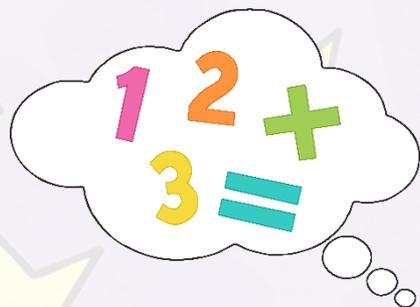
Number Patterns and Sequences

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A number pattern is a sequence of numbers that follow a certain rule.

This is a number pattern:

1, 2, 3, 4, 5, 6



The rule is
add 1 each
time

Click [here](#) to see how this works.

1, ⁺¹2, ⁺¹3, ⁺¹4, ⁺¹5, ⁺¹6

$$1 + 1 = 2$$

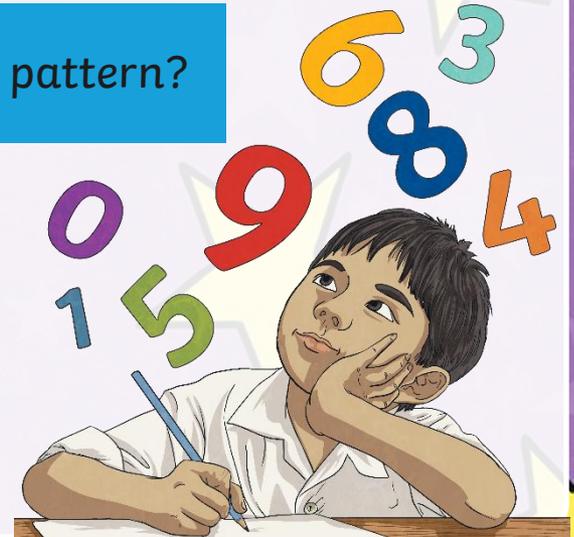
$$2 + 1 = 3$$

$$3 + 1 = 4$$

$$4 + 1 = 5$$

$$5 + 1 = 6$$

What would the next number be in this pattern?



What is happening each time?

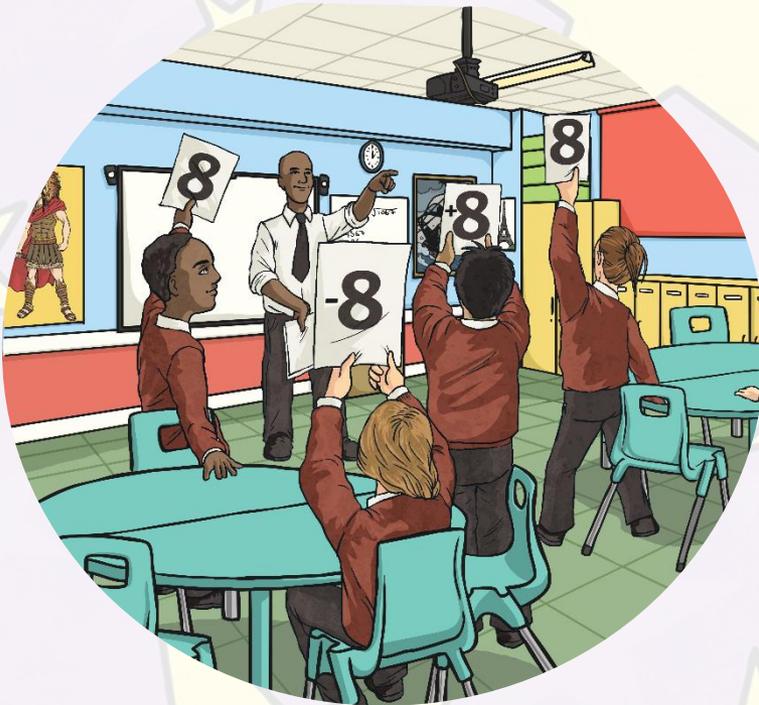
⁺⁵ 5, ⁺⁵ 10, ⁺⁵ 15, 20, 25, 30, 35

Can you figure out what the next numbers in this sequence would be?

$$35 + 5 = 40$$



Number sequences can use addition, subtraction, multiplication or division.



Each rule can include whole numbers or decimal numbers.

Let's look at some trickier sequences!

Can you finish this number sequence?

⁻¹48, ⁻²47, ⁻³45, ⁻⁴42, 38, ⁻⁵33.



What happens to get from 48 to 47?

What happens to get from 47 to 45?

What happens to get from 45 to 42?

What number will come after 42?

What number will come after 38?

Let's look at these even trickier number patterns.
Can you figure out the missing numbers and the
rule in these sequences?

2, 4, 8, 16, 32, 64, 128 rule = double the number

800, 400, 200, 100, 50, 25 rule = divide by 2

10, 17, 20, 27, 30, 37, 40 rule = add 7, add 3



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