Let's Learn

a Jon has 25 books. He gets 5 books every month.
This is an **increasing** pattern.

The numbers become greater each time.

25,   30,   35,   40,   45,   50,   55

5 more

b Nurul has 20 eggs. She eats 2 eggs every day. This is a **decreasing** pattern.

The numbers become smaller each time.

20,   18,   16,   14,   12,   10

2 less

What other decreasing patterns can you make?

(c) Weihao's Paintings

Weihao made 10 paintings in January. He made 10 more each month.

1st term 2nd term 3rd term 4th term

10,   20,   30,   40, ...

+ 10   + 10   + 10

The ... shows that there are more numbers in the pattern.

How do you find the 5th and 6th terms?

The **term-to-term** rule is to add 10 to the term before each time.

Each number in a pattern is called a **term**.

Find the difference between this term and the next.

10 is called a **constant**.

10, 20, 30 and 40 to the 1st term, 2nd term, 3rd term and 4th term of the number pattern.

The number becomes 10 more each time.

c   Weihao made 10 paintings in January.

He made 10 more each month.

Ist term   2nd term   3rd term   4th term
  10,   20,   30,   40,   ...

+ 10

How do you find the 5th and 6th terms?

This **term-to-term** rule is to add 10 to the term before each time.

Each number in a pattern is called a **term**.

Find the difference between this term and the next.

10 is called a **constant**.

To get the 5th term, we add 10 to 40.

The 5th term is __50__.

The 6th term is __60__.
How do you know?

What will the 10th term be?

Add 4 tens to 60

100