

Remember to read the yellow teaching box before you begin. 😊

Chapter 13

Describing Number Patterns

To describe a **number pattern** :-

- write the **starting number**, then say
- by how much the numbers are **going up** or **coming down**.

Example
Describe the pattern 2, 7, 12, 17, 22,

Start at 2 and go up by 5 each time.

Exercise 1

1. Describe each of the following patterns by writing :-
"Start at and go up (or down) by each time".

a 2, 4, 6, 8, ...	b 3, 6, 9, 12, 15, ...
c 1, 6, 11, 16, 21, ...	d 70, 60, 50, 40, 30, ...
e 20, 17, 14, 11, ...	f 30, 38, 46, 54, ...
g 21, 19, 17, 15, ...	h 50, 100, 150, 200, ...
i 200, 180, 160, 140, ...	j 40, 100, 160, 220, ...
k 18, 25, 32, 39, ...	l 66, 55, 44, 33, ...
m 650, 540, 430, 320, ...	n 1, 13, 25, 37, ...
o £1.50, £2, £2.50, £3, ...	p £2.50, £5.50, £8.50, £11.50, ...

2. Write down the **next number** in each of the patterns in question 1.

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Copy each number pattern and **fill in** all missing numbers :-

a 13, 15, ... 19, 21, ...	b 4, ... 10, 13, 16, ...
c 68, 58, 48, 38,	d 12, ... 22, ... 32, 37
e 77, 66, ... 44, 33, ...	f 3, 9, 27, 33, ...

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Optional Extension for Rectangles Only

Chapter 15

Patterns

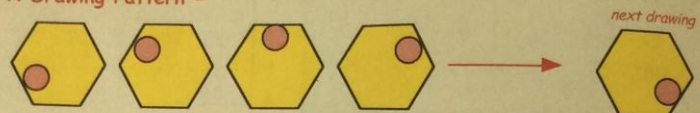
Basic Patterns Revision

Mathematicians like to look for **rules** for patterns in drawings and in sets of numbers.

This helps them decide how to **continue** the pattern or the set of numbers.

Examples :-

A Drawing Pattern -



A Letter Pattern :-

P, R, T, V, X, next letter Z

A Number Pattern :-

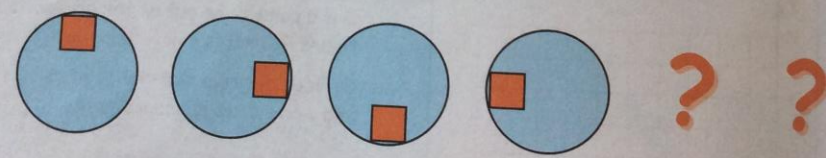
4, 9, 14, 19, 24, next number 29

Discuss how the patterns are formed in the above 3 examples.

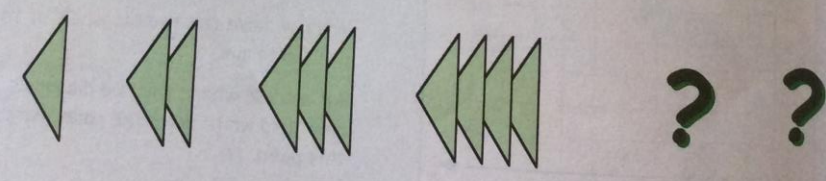
Exercise 1

1. Show the next 2 drawings in each of these pattern (neatly).

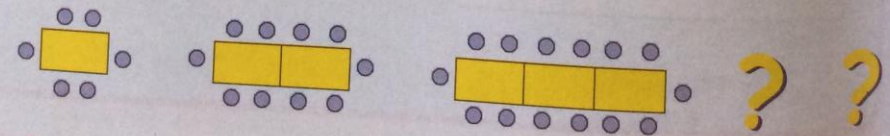
a



b



c



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