10.06.20

LI: I am learning to identify the rule in number sequences.

1) Find the rule for these sequences and write the next three numbers in the sequence.
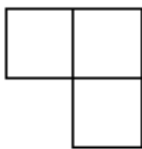
a) 10, 17, 24, 31

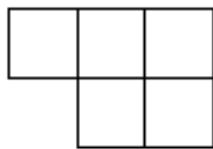b) 7, 16, 25, 34

c) 8, 12, 16, 20

2) Here are some patterns...
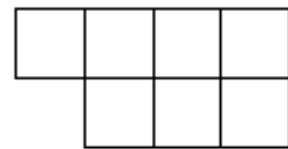
Pattern 1   Pattern 2   Pattern 3

a) Draw pattern 4.
b) How many squares will there be in pattern 13?
c) Which pattern has 27 squares?

3) Here is part of a number sequence. The numbers increase by the same amount each time.

770   765   760   755   750

The sequence continues.

Circle **all** of the numbers below that would appear in the sequence.

840   905   989   1000   2051

4) The numbers in this sequence increase by 30 each time.

20 50 80 110 ...

The sequence continues in the same way.
Which number in the sequence will be closest to 300?

5) The numbers in this sequence increase by the same amount each time. Write in the missing numbers.

1   ?   ?   13

The first two numbers in this sequence are 2.1 and 2.2

The sequence then follows the rule

'to get the next number, add the two previous numbers'

Write in the next two numbers in the sequence.

2.1   2.2   4.3   6.5   ☐   ☐