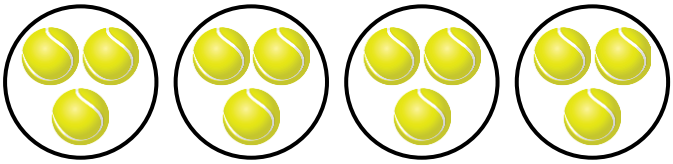
Multiply by 3

1. Complete the sentence and calculation below to describe the representation.



There are ☐ equal groups of ☐ balls.

3 + ☐ + 3 ☐☐ = ☐

VF

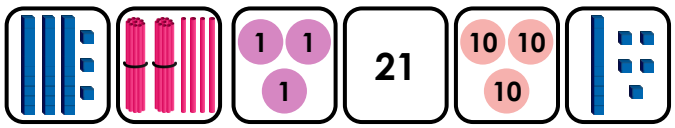
2. Complete each sequence using the cards below.

A.

	six	9			18

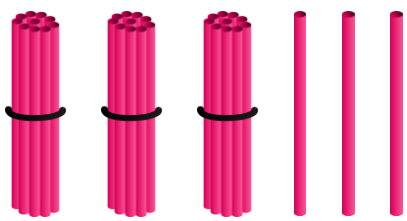
B.

36			27		10 10 1



VF

3. Allie is counting backwards in 3s starting from 33.



What number will be her fifth number?

When will she reach the number nine?

VF

4. Naveed is counting forwards in 3s from twelve to 12 lots of 3.

Every time he says a number with a digit sum of 3 or 9 he gets three points.

Investigate all the numbers that will enable him to get three points.

How many points does he achieve in total?

PS

5. Antoni and Rayana have placed peaches on plates.

They say,

Antoni

The plates show 3 + 3 + 3 + 3 + 3, which is the same as five equal groups of three.

The plates do not show equal groups of 3 because the peaches are arranged in different ways.

Rayana

Who is correct? Explain why.

R

6. Sofia is counting backwards in 3s.

When I count backwards in 3s from thirty-six, the sequence is: 36, 33, 30, 26, 23, 21, 18, 15, 11, 9, 6 and 3.

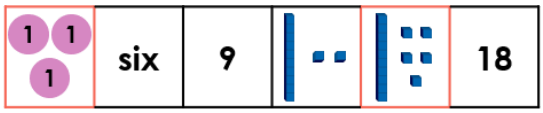
Find and explain the mistakes she has made.

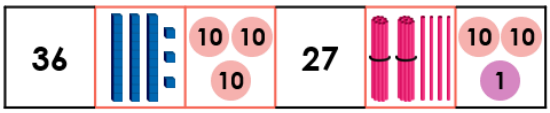
R

Multiply by 3

1. There are 4 equals groups of 3 balls. 3 + 3 + 3 + 3 = 12

2.

A. 

B. 

3. 18 with be her fifth number. She will reach nine on her 8th number.

4. The numbers that will get him three points are: 18; 21; 27; 30 and 36. He will get 15 points in total.

5. Antoni is correct because there are 5 plates with 3 peaches on each plate. Therefore, there are 5 equal groups of 3. This is the same as 3 + 3 + 3 + 3 + 3 or 5 x 3. Rayana is incorrect because the different arrangements of the peaches does not affect the calculation or equal groups.

6. The mistakes Sofia has made are 26; 23 and 11. When counting backwards in 3s from 3, these numbers will not come in the sequence. The correct sequence is 36, 33, 30, 27, 24, 21, 18, 15, 12, 9, 6 and 3.