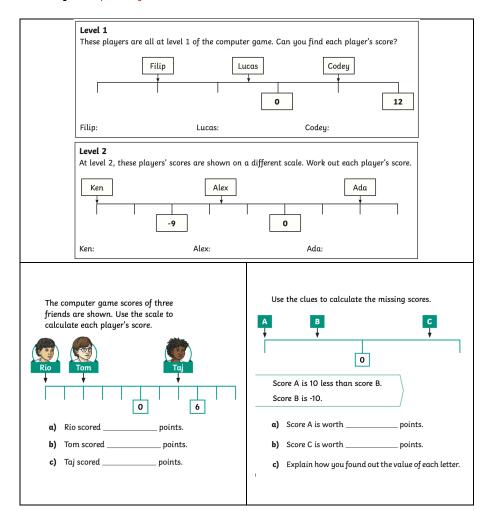# Year 5 Number Knowledge – Summer 2

Each term, your child will focus on two areas to help them with their understanding of number. We would like you to choose one of the following activities to complete at home each week.

Counting: *Interpret negative numbers in context*

Multiplication tables and related division facts: *Square and Cube numbers*

Level 1

These players are all at level 1 of the computer game. Can you find each player's score?

Filip   Lucas   Codey

0   12

Filip: Lucas: Codey:

Level 2

At level 2, these players' scores are shown on a different scale. Work out each player's score.

Ken   Alex   Ada

-9   0

Ken: Alex: Ada:

The computer game scores of three friends are shown. Use the scale to calculate each player's score.

Rio   Tom   Taj

0   6

a) Rio scored _____ points.

b) Tom scored _____ points.

c) Taj scored _____ points.

Use the clues to calculate the missing scores.

A   B   C

0

Score A is 10 less than score B.
Score B is -10.

a) Score A is worth _____ points.

b) Score C is worth _____ points.

c) Explain how you found out the value of each letter.

1^2	1 x 1	1
2^2		4
3^2	3 x 3	
	4 x 4	16
5^2		
		36
	7 x 7	
8^2		
10^2		100

1^3	1 x 1 x 1	1
2^3	2 x 2 x 2	
3^3		27
	4 x 4 x 4	64
5^3		
6^3	6 x 6 x 6	
		343
8^3		512
	9 x 9 x 9	729
10^3		

Use the completed tables to work out the following:

1) $7^2 + 4^3 =$ _____

2) $8^2 + 10^2 =$ _____

3) $5^3 - 5^2 =$ _____

4) $5^2 +$ _____ $= 89$

5) _____ $- 8^2 = 17$

6) $3^2 \times 2^3 =$ _____

Create a poster to teach other people about what a **square** number is and what a **cube** number is. Remember to include images in your poster.

CHALLENGE: explain the difference between a square and a cube number.