Thursday 18th June

**L.K: To round decimals with one decimal place to the nearest whole number**

Start by having a go at the following table and rounding the numbers to the nearest 10, 100 and 1000.

	Rounded to the nearest 10	Rounded to the nearest 100	Rounded to the nearest 1000
525			
1083			
7263			
8500			

When we round, we need to look at the number that we are rounding and either round that number up or down. If we have the number 765 and round it to the nearest 100, we will be looking at the number in the tens column first. This is a "6". If a number is 0, 1, 2, 3 or 4, we round down. If it is 5, 6, 7, 8 or 9, then we round up. So we round the 6 up. As we round up, we change the numbers in the tens and hundreds column to "0" and then add "1" to the hundreds column, changing it to an "8". So 765 to the nearest 100 is 800.

The same principle applies to decimals. Have a go at rounding these decimal numbers to the nearest whole number.

1) 0.7
2) 1.2
3) 4.6
4) 8.1
5) 0.3
6) 7.9

5.2 m

1.8 m

1.4 m
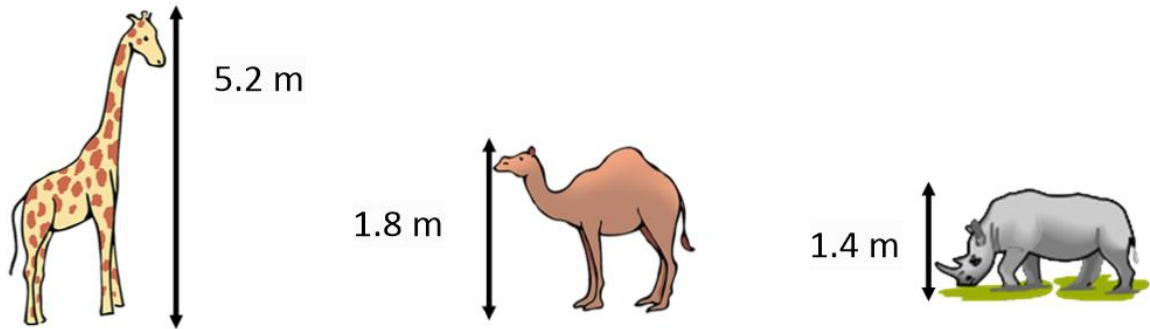
Can you round each of the heights of the animals above to the nearest whole number? Which animals would be able to live in a cage that was 2 metres high?

Reasoning and problem solving

1) "When I round my decimal number to the nearest whole number, I get the number 7. What decimal numbers could my original number be? List all of the examples that you can think of."

2) I am thinking of a number. It is bigger than 7, but less than 8.4. It is an even number. When I round it to the nearest whole, I get the number 8. What could my original decimal number be?

3) I want to buy a bag of crisps from the shop.
I have £0.63 and the crisps cost £0.60.
Will I be able to afford the crisps?

Explain your working.

4) Simon is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.

He measures it to the nearest cm and writes the answer 28cm.
What is the smallest length the box of chocolates could be?
What is the largest length the box of chocolates could be?