

Friday 19th June

L.K: To round to the nearest whole number in order to investigate a problem

Today we will investigate and answer problems using rounding to the nearest whole number. Have a go at the table below as a starter question.

| | Rounded to the nearest 10 | Rounded to the nearest 10 | Rounded to the nearest 100 |
|-------|---------------------------|---------------------------|----------------------------|
| 89.1 | | | |
| 475.7 | | | |
| 156.3 | | | |
| 450.9 | | | |

Now try these word problems

I think of a number with one decimal place and round it to the nearest whole. My answer is 74.

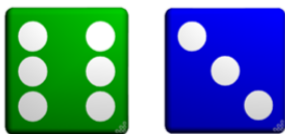
? *What is the highest possible number I could have thought of?*

? *What is the smallest possible number I could have thought of?*

I think of a number with one decimal place and round it to the nearest whole. My answer is 324.

? *How many possibilities are there which my number could be?*

I roll two dice:



I make two decimals: 6.3 and 3.6

6.3 rounded to the nearest whole = 6

3.6 rounded to the nearest whole = 4

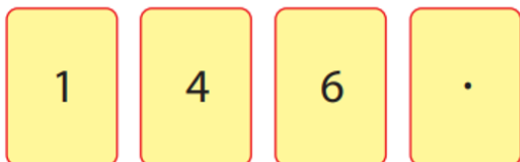
Investigate: What two numbers can I roll, which both round to the same number?

Reasoning and problem solving

- 1) Arrange these decimals in order from highest to lowest. How do you know that you are correct? How did you find your answer?



- 2) Using these cards can you make a number between 4.1 and 4.61?



What is the smallest number you can make using all four cards?

What is the largest number you can make using all four cards?

- 3) I am thinking of a number. It is a decimal and it is more than $\frac{5}{10}$, but less than $2\frac{3}{5}$. What number could it be? How do you know?