



Hello children! Today I am playing with dice.

Will you join me?

Task 1 – Possibilities and Totals



I rolled 2 dice.





I rolled a 5 and a 6 on my dice. And when I add the 2 numbers the total is 11.

- What is the **largest total** that can be made with **2 dice**, with **3 dice** and with **4 dice**?
- What is the **smallest total** that can be made with **2 dice**, with **3 dice** and with **4 dice**?
- What are **all the possibilities** you can get when rolling **2 dice**?

First **estimate** the number of possibilities you think there are.

You can copy and fill in the table below to help you out.

1 st 	2 nd 	Total
1	1	2

- Look at the totals, and write at least one sentence about what you notice about these totals.

For example – I noticed that there is only one total of 2.

Task 2: Dice Investigation



Resources needed for this investigation:

2 dice



A copy of the below chart

Directions:

- Roll both dice **60 times**.
- Record the **total** rolled as a tally mark in the correct space in the table below (note that the table is unfinished)

For example if a 5 and a 6 is rolled the total is 11. So I put a tally mark near the 11.

How to Tally -

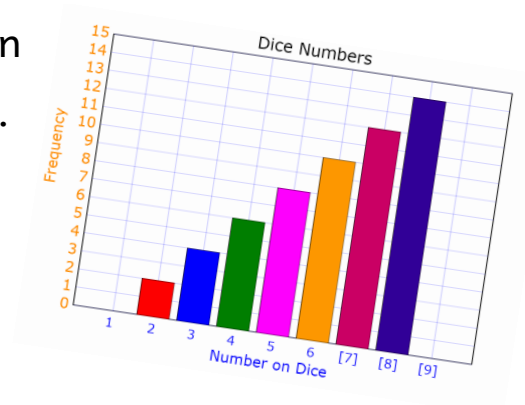
1 | 2 || 3 ||| 4 ||||
 5 |||| 6 |||| | 7 |||| || 8 |||| |||
 9 |||| || 10 |||| ||| 11 |||| |||| | 12 |||| |||| ||

Answer	Tally	Frequency
1		
2		
3		
4		
5		
6		

Now, plot a **bar graph** to show your results on the page provided or on a squared paper.

Remember –

- Name your graph.
- Think about the best scale to use.



Look carefully at your table and graph then answer the below questions:

- Why do you think SuperM asked you to throw both dice **60 times**?
- Which **total** was rolled **most often**?
- Which **total** was rolled **less often**?
- Why** do you think these **totals** were rolled **most/less often**?
- Do you think you will get the **same results** if you rolled the dice again for another 60 times? Try it out again. Did you get the same results?