



Hello children! Today I am playing with dice.

Will you join me?



Task 1 - Totals

I rolled 2 dice.



The **total** number of spots on my dice is **11**.

Now, please help me out with the below questions.

a. What is the **largest total** that can be made with **2 dice**?

$$6 + 6 = 12$$

b. What is the **smallest total** that can be made with **2 dice**?

$$1 + 1 = 2$$

c. What are **all the different totals** that can be made with **2 dice**?

Possible totals are all the numbers from 2 to 12.

d. What are the **smallest and largest totals** that can be made with **3 dice** and with **4 dice**?

3 dice: largest total 18 (6 + 6 + 6), smallest total 3 (1 + 1 + 1).

4 dice: largest total 24 (6+6+6+6), smallest total 4 (1+1+1+1)

Task 2: Dice Investigation



Resources needed for this investigation:

1 dice



A copy of the chart below

Directions:

- Roll the dice 60 times.
- Record the number shown on the dice every time it is rolled by using tally marks, in the corresponding space, in the table below.
- Below is an example of how it should look like.

Tally -

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

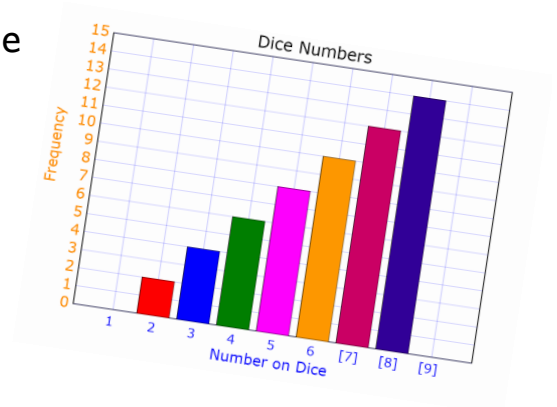
Answer	Tally	Frequency
1		
2		
3		
4		
5		
6		
	Total Frequency	60

Answers may vary

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.



Answers may vary

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

- Are the **bars** all of the **same height**? **Yes** or **No**? **Why** do you think this is so?
- Which **number** was rolled **most often**?
- Which **number** was rolled **less often**?
- Write a sentence** about your graph.
- Do you think** you will get the same results if you rolled again the dice for another 60 times? **Why**?