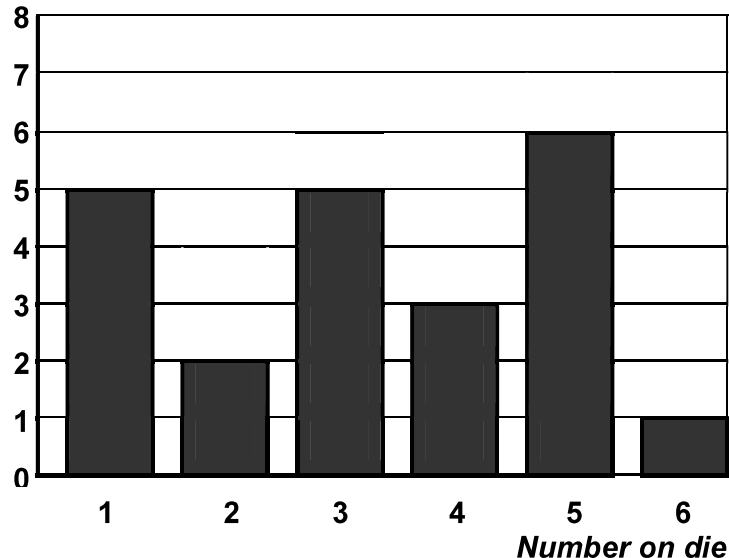


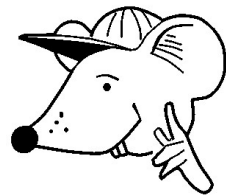
1. Peter made a large six-sided die from cardboard and stuck some small weights inside so that it was not a 'fair' die. These were the results when he threw it a few times.

Frequency

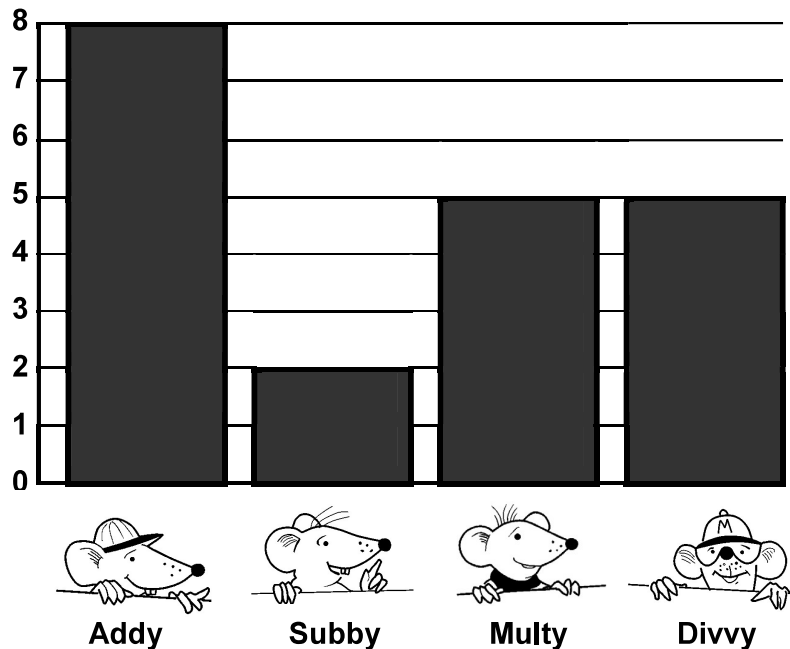


- How many times did Peter throw the die altogether?
- Which number was the mode?
- What was the difference in frequencies between the most and least common numbers?
- If this graph shows how the weights are really affecting Peter's die, what is the probability that on his next throw he will get a number 5 ?
- What is the probability that he gets more than 4 on his next throw?

Hint: You need the answer to part a) for this question.



1. Addy, Subby, Multy and Divvy have twenty races over 200m. (This is a long way for a rat - even a Maths Rat!). This table shows how many times each of them won.



- Who won the most races?
- Which two Maths Rats won the same number of races?
- What was the difference between the maximum number of wins and the minimum number of wins?
- If they run another race, what is the probability of Multy winning?
- What is the probability of Addy winning?
- If they run four more races and each Maths Rat wins one race, what fraction of all the races has Subby won?
- If the Maths Rat that wins the least number of races gets a wooden spoon, who is that going to be?