

70 SPACE DICE



- 1 A tetrahedron-shaped die has the numbers 1, 2, 3 and 4 on its faces.
- a Lyle tossed two of these dice and added the numbers. Fill in the table to show the possible outcomes.

+	1	2	3	4
1				
2				
3				
4				

- b What is the probability of getting
- i a total of 4
 - ii the same number on both dice
 - iii a total of at least 3
 - iv a total of less than 6
- c Which total does Lyle have the highest probability of getting?
- d If Lyle tossed the two dice 100 times, how many times would he expect to get a total of 6?

- 2 An octahedron-shaped die has the numbers 1, 2, 3, 4, 5, 6, 7 and 8 on its faces.

Chen tossed two of these dice and added the numbers.

- a Draw a table to show the possible outcomes.
- b What is the probability of getting
- i a total that is an odd number?
 - ii a total greater than 5?
 - iii the same number of both dice?
 - iv a total less than 8?
- c Which total does Chen have the highest probability of getting?
- d Chen and a friend played this game. Spread 16 counters on these numbers. You can put as many counters as you like on each number.



- Toss the two octahedron dice and add the numbers.
- If you have counters on this total, take one off.
- The winner is the first person to have all his or her counters removed.

On which two numbers do you think Chen should put the fewest counters?