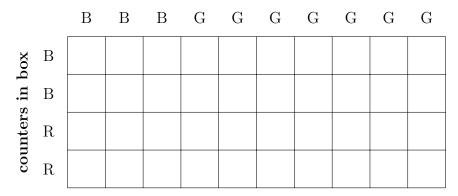1. Junior has a box containing 2 blue and 2 red counters.

   He also has a bag containing 3 blue and 7 green counters.

   Junior takes at random one counter from the box.

   Junior takes at random one counter from the bag.
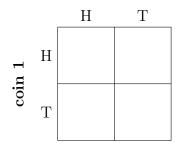
counters in bag

	B	B	B	G	G	G	G	G	G	G
B										
B										
R										
R										

counters in box

Work out the probability of Junior taking two blue counters.

1. . . . .
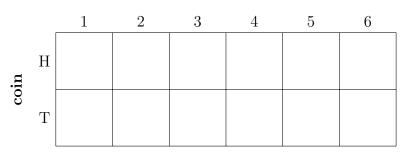
2. Lawrence will throw 2 fair coins.

coin 2

	H	T
H		
T		

coin 1

Work out the probability of Lawrence getting two heads.

2. ·············

3. Kacey will throw a fair coin and a fair dice.

dice score

	1	2	3	4	5	6
H						
T						

Work out the probability of Kacey throwing a head and a number more than 3.
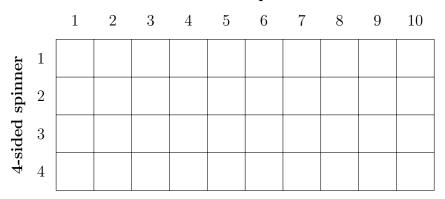
3. . . . .

4. Jaiden spins a 4-sided spinner and a 10-sided spinner.

   The sides of the 4-sided spinner are labelled 1, 2, 3 and 4.

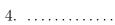   The sides of the 10-sided spinner are labelled 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10.

10-sided spinner

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

4-sided spinner

Work out the probability that Jaiden gets a double.

{This means that both spinners get the same score}

4. . . . .

Answers

1. $\dfrac{6}{40}$ or $\dfrac{3}{20}$

2. $\dfrac{1}{4}$ or 25%

3. $\dfrac{3}{12}$ or $\dfrac{1}{4}$

4. $\dfrac{4}{40}$ or $\dfrac{1}{10}$