1	In a bag, there are only red counters, blue counters, green counters and yellow counters.
	The total number of counters in the bag is 80
	In the bag
	the number of red counters is $x + 7$ the number of blue counters is $x - 11$ the number of green counters is $3x$
	Jude takes at random a counter from the bag.
	The probability that he takes a red counter is $\frac{1}{4}$
	Work out the probability that Jude takes a yellow counter.
	(Total for Question 1 is 4 marks)
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2	Calles along the calculation of Marking
2	Sally plays two games against Martin. In each game, Sally could win, draw or lose.
	In each game they play, the probability that Sally will win against Martin is 0.3 the probability that Sally will draw against Martin is 0.1
	Work out the probability that Sally will win exactly one of the two games against Martin.
	(Total for Question 2 is 3 marks)
	(2000 200 @ 200 200 200 200)

3	There are only red counters and blue counters in a bag.
	Joe takes at random a counter from the bag. The probability that the counter is red is 0.65 Joe puts the counter back into the bag.
	Mary takes at random a counter from the bag. She puts the counter back into the bag.
	(a) What is the probability that Joe and Mary take counters of different colours?
	There are 78 red counters in the bag.
	(b) How many blue counters are there in the bag?
	(c)
	(2)
	(Total for Question 3 is 4 marks)

4	There are 54 fish in a tank. Some of the fish are white and the rest of the fish are red.	
	Jeevan takes at random a fish from the tank. The probability that he takes a white fish is $\frac{4}{9}$	
	(a) Work out the number of white fish originally in the tank.	
		(2)
	Jeevan puts the fish he took out, back into the tank. He puts some more white fish into the tank.	
	Jeevan takes at random a fish from the tank. The probability that he takes a white fish is now $\frac{1}{2}$	
	(b) Work out the number of white fish Jeevan put into the tank.	
		(2)
	(Total for Question	4 is 4 marks)

5 Cormac has some sweets in a bag. The sweets are lime flavoured or strawberry flavoured or orange flavoured.
In the bag
number of lime flavoured sweets : number of strawberry flavoured sweets : number of orange flavoured sweets : $\frac{1}{1}$ = 9 : 4 : $\frac{1}{2}$
Cormac is going to take at random a sweet from the bag.
The probability that he takes a lime flavoured sweet is $\frac{3}{7}$
Work out the value of x .
$x = \dots$
(Total for Question 5 is 3 marks)

6	There are 90 counters in a bag. Each counter in the bag is either red or blue so that
	the number of red counters: the number of blue counters $= 2:13$
	Li is going to put some more red counters in the bag so that
	the probability of taking at random a red counter from the bag is $\frac{1}{3}$
	Work out the number of red counters that Li is going to put in the bag.
	(Total for Question 6 is 4 marks)

7	There are only red counters, blue counters and purple counters in a bag. The ratio of the number of red counters to the number of blue counters is 3:17
	Sam takes at random a counter from the bag. The probability that the counter is purple is 0.2
	Work out the probability that Sam takes a red counter.
	(Total for Question 7 is 3 marks)
	(come our Quinness)

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ð	There are only blue counters, red counters and green counters in a box.
	The probability that a counter taken at random from the box will be blue is 0.4. The ratio of the number of red counters to the number of green counters is 7:8.
	Sameena takes at random a counter from the box. She records its colour and puts the counter back in the box. Sameena does this a total of 50 times.
	Work out an estimate for the number of times she takes a green counter.
	(Total for Question 8 is 3 marks)
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