

The table shows the relative frequency of a 5 sided spinner.

Blue	0.15
Red	0.4
Black	x
Yellow	x
Green	0.25

- (i) How many Blacks would you expect to spin if you spun the spinner 500 times?
- (ii) What is the probability of spinning 4 reds in a row?
- (iii) What is the probability of not spinning a Yellow if you spin the spinner once?
- (iv) Is spinning 3 Blues in a row independent or dependent?

Bag A and bag B each contain only **blue** marbles. Jim adds ten **red** marbles to each bag. $\frac{1}{2}$ of the marbles in bag A are now red. $\frac{1}{4}$ of the marbles in bag B are now red. Jim puts all the marbles into one bag. He picks a marble at random from the bag. What is the probability that he picks a **blue** marble?

Fred goes for a meal. The probability he has potatoes with his meal is 0.4. The probability he has peas with his meal is 0.7 (they are independent events) What is the probability (a) He has potatoes but not peas with his meal? (b) He has neither?

A drawer contains 8 white socks, 2 blue socks and 1 black sock. What is the probability if two socks are taken at random they are a matching pair?

The table below shows the holiday destinations of 60 people and the type of accommodation chosen.

	Hotel	Tent	Total
Paris	3		5
London			
NYC		2	12
Rome	15		20
Total		15	

- (a) Complete the table
- (b) Find the probability someone stays in London in a tent (c) Find the probability someone stays in NYC (d) Find the probability someone doesn't stay in a tent in Paris. (e) Find the probability that if 3 people were chosen at random from the sample they would all be in Hotels in Rome.

The probability of a train being late is 0.4 if the last one was late and 0.7 if the last one was on time. Given the last train was late find the probability (a) the next two are on time (b) the next one is later and the following one is on time.

Draw a Venn diagram to show the information about 100 students.
10 were tall, left handed boys.
17 were left handed boys, 18 were tall and left handed, 35 were left handed. 15 were tall boys, 41 were tall and 42 were boys.
(a) Find the probability of a girl being chosen at random from the students who was short and right handed.

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