

## How to ...

Read the question 😊

Rhianna plays a game.

The probability that she will lose the game is 0.32

The probability that she will draw the game is 0.05

Rhianna is going to play the game 200 times.

Work out an estimate for the number of times that Rhianna will win the game.

There are 3 outcomes possible

Win, Lose or draw

Probability  
 ↓       ↓       ↓  
 ?       0.32    0.05

so we need to work out the probability that she will win

$$1 - (0.32 + 0.05) = 1 - 0.37 = 0.63$$

Estimate from 200 games of winning

USE YOUR CALCULATOR!  $0.63 \times 200 = \underline{\underline{126}}$  (3)  
 (you can find 63% of 200 - but this is the same)

Now have a go yourself ...

### SORTED IT

1) A bag contains 5 red balls and 4 green balls. What is the probability that the ball will be

a) Green                  b) Red                  c) yellow

2) A letter is chosen from the word PROBABILITY.

What is the probability that the letter will be

a) B                  b) Y                  c) R or I                  d) a vowel

### NAILED IT

1) The probability of rolling a 5 on a biased dice is  $\frac{1}{5}$ . Work out the probability of not rolling a 5.

2) The probability that it will rain tomorrow is 0.65. Work out the probability that it will not rain.

### MASTERED IT

The sectors of a 3 sided spinner are red, blue and black. The probability of it landing on each colour is shown.

Colour	Red	Blue	Black
Probability	0.35	0.15	

What is the probability of getting a colour that is

a) not red                  b) black                  c) black or red

d) It is spun 200 times - work out an estimate for the number of time it will land on blue.

## Exam Questions

I have a four sided spinner, which is biased.

It can land on the numbers 1, 2, 3 or 4. The table shows the probabilities that the spinner will land on 1 or on 3.

Number	1	2	3	4
Probability	0.2		0.1	

The probability that the spinner will land on 2 is the same as the probability that the spinner will land on 4

(a) Work out the probability that the spinner will land on 4

(3)

Shunya is going to spin the spinner 200 times.

(a) Work out an estimate for the number of times that the spinner will land on 3.

(2)

## Ready to be marked ?

### Checklist

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Answer checked

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Working out shown



### Keywords

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### Things to remember ...

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### What went well ...

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### Teacher comment ..