

Q1. (2017)

- 9 (b) A factor of 30 is chosen at random.

What is the probability that it is a 2-digit number?

[1 mark]

Q2. (2017)

- 25 There are 720 boys and 700 girls in a school.

The probability that a boy chosen at random studies French is $\frac{2}{3}$

The probability that a girl chosen at random studies French is $\frac{3}{5}$

(A)

- 25 (a) Work out the number of students in the school who study French.

[3 marks]

(B)

- 25 (b) Work out the probability that a student chosen at random from the whole school does **not** study French.

[2 marks]

Q3. (2018)

- 9 A music app has a shuffle play function.

This means that songs are played in a random order **without repeat**.

(A)

- 9 (a) Ruth puts 10 songs on shuffle play.
One of them is her favourite song.

Write down the probability that her favourite song plays first.

[1 mark]

Answer _____

(B)

- 9 (b) Ted puts songs A, B and C on shuffle play.

List all the possible orders of songs A, B and C.

One has been done for you.

[2 marks]

A B C

Q4. (2018)

- 20 The probability that A is the outcome of an experiment is 0.2

Circle the probability that A is **not** the outcome.

[1 mark]

0 0.2 0.5 0.8

Q5. (2022)

9 Some students were asked about their daily exercise.

- 9 (b)** One of the 35 students who answered Yes is chosen at random.

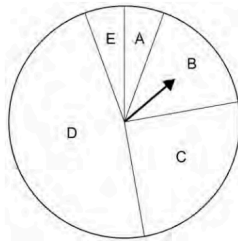
What is the probability that they exercise for at least 1 hour?

[1 mark]

Answer _____

Q6. (2023)

- 3 (a)** A fair spinner with five sections is spun.



Complete these statements.

[2 marks]

The spinner is **most likely** to land on section _____

The spinner is **equally likely** to land on sections _____ and _____

Q7. (2024)

- 20** Rick claims most of the flats in his 8-floor building are energy efficient.

He samples 45 flats from floors 1 to 5

Give a reason why this sample may **not** be useful in testing Rick's claim.

[1 mark]