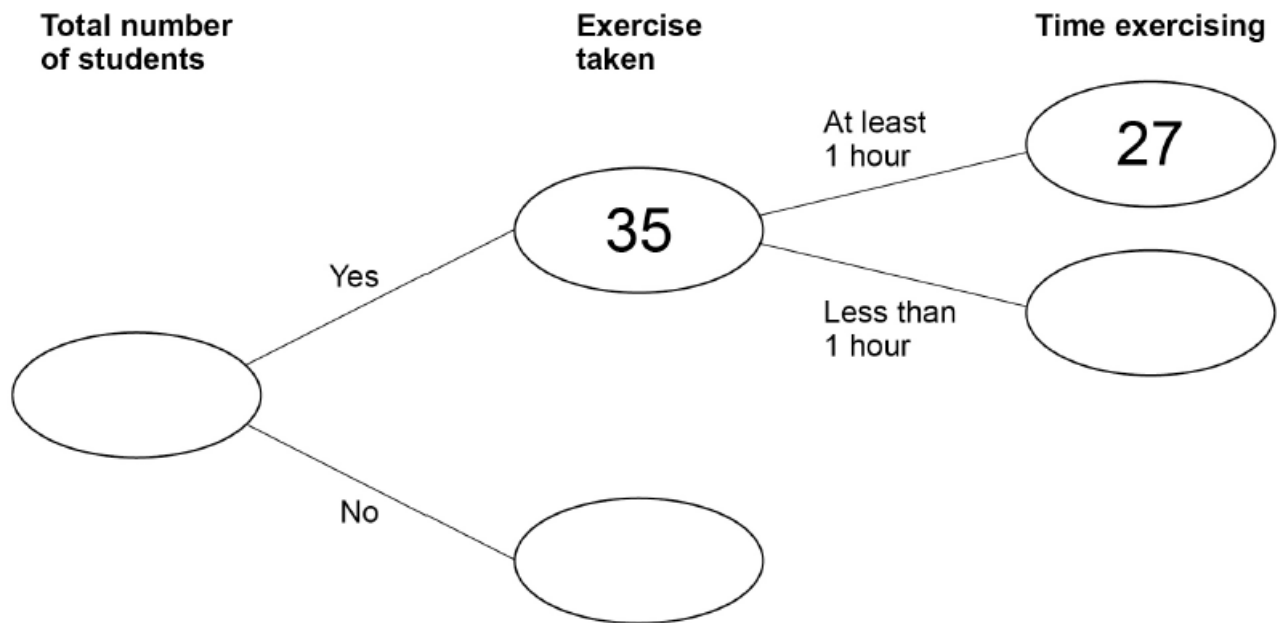


Probability – GCSE Mathematics Paper 3**1. No.9**

Some students were asked about their daily exercise.

(a) 12 more students answered Yes than answered No.

Complete the frequency tree.

[3 marks]**(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 _____

2. No.20

Adam and Bianca each throw the same biased coin.

Here is some information about their throws.

	Number of throws	Number of Heads
Adam	40	14
Bianca	60	20

Bianca says,

“My results give a better estimate of the probability of Heads than Adam’s results.”

Is she correct?

Tick a box.

Yes

☐

No

☐

Give a reason for your answer.

[1 mark]

3. No.17

In a video game, players make their own character.

They choose one of each from

8 faces

4 bodies

5 hairstyles.

(a) How many different characters can be made?

[2 marks]

Answer _____

(b) Two characters are made at random.

What is the probability that they are exactly the same?

[1 mark]

Answer _____

4. No.8(c)

(c) Write down the probability that the first card is an even number.

[1 mark]

Answer _____

5. No.11(b)

(b) Assume that she will choose a square at random.

Write down the probability that she will put her first cross in square F6

[1 mark]

Answer _____

6. No.15

A biased spinner can land on A, B or C.

The table shows the probabilities, in terms of k , of A, B and C.

	A	B	C
Probability	$0.5k$	$7k - 0.15$	$2.5k$

Work out the probability of B.

[3 marks]

Answer _____