AQA – Probability – GCSE 2022 Mathematics
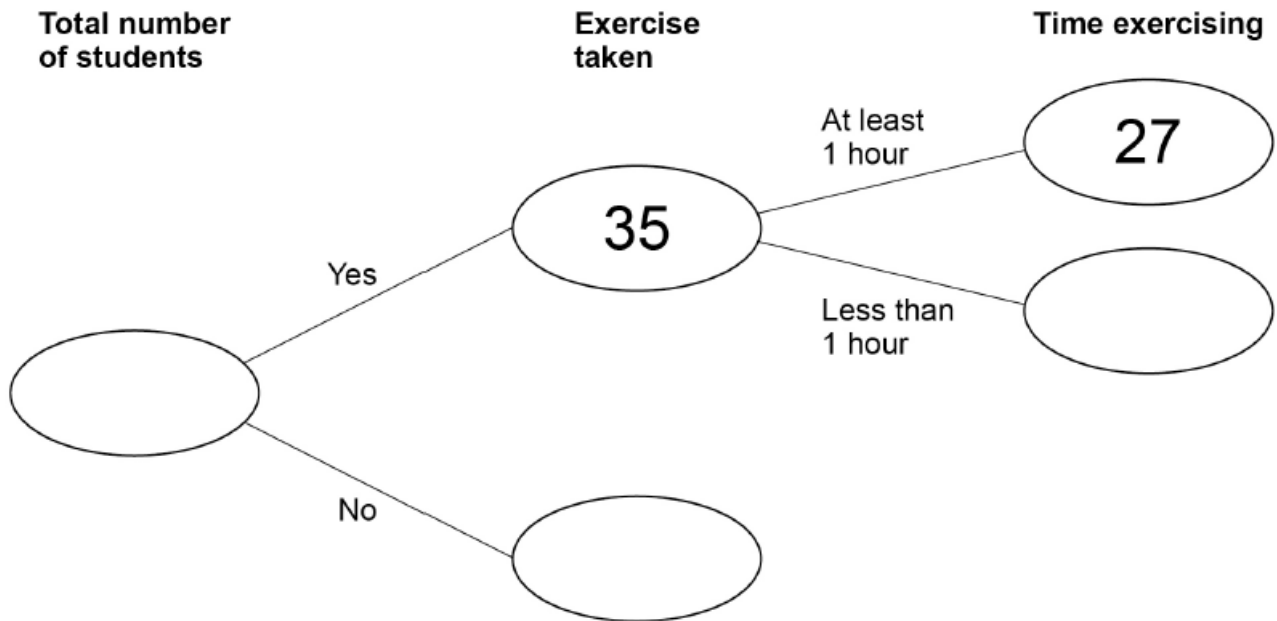
1. June/2022/Paper_8300/3F/No.9

Some students were asked about their daily exercise.

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

Complete the frequency tree.

[3 marks]

Total number of students		Exercise taken		Time exercising

At least 1 hour — 27

35

Yes

Less than 1 hour

No

(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. June/2022/Paper_8300/3F/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. June/2022/Paper_8300/3H/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 _____