

FREQUENCY TREES

Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

1.

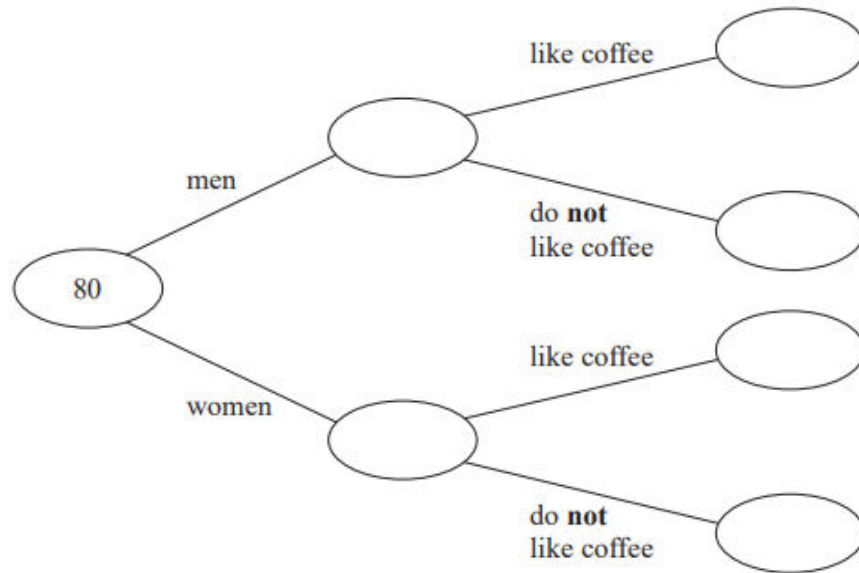
17 80 people are asked if they like coffee.

48 of these people are women.

61 of the 80 people like coffee.

8 of the men do **not** like coffee.

(a) Use this information to complete the frequency tree.



(3)

One of the people who like coffee is chosen at random.

(b) Find the probability that this person is a woman.

(2)

(Total for Question 17 is 5 marks)

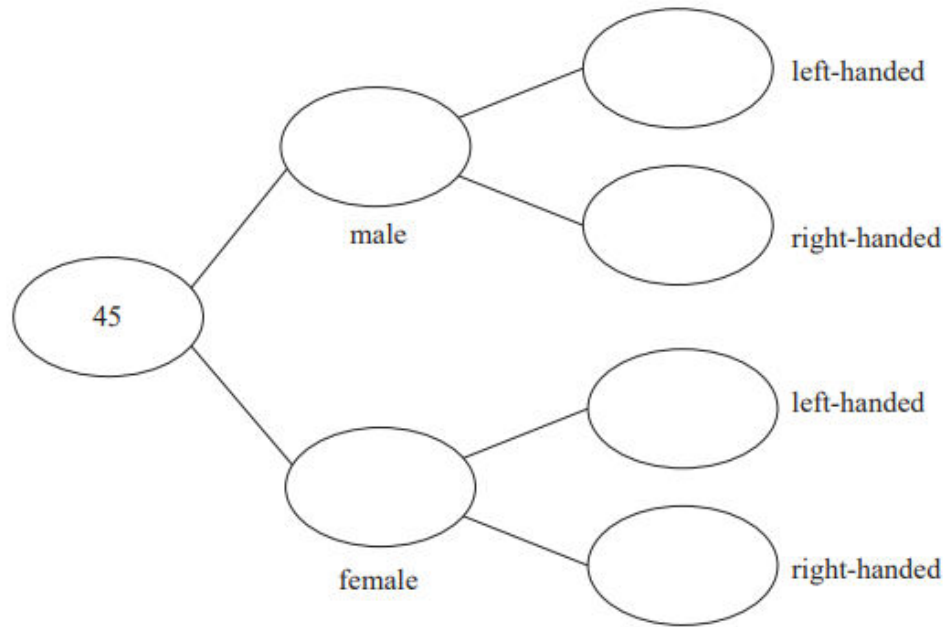
2.

14 Each worker in a factory is either left-handed or right-handed.

22 of the 45 workers are male.

16 of the 34 right-handed workers are female.

Complete the frequency tree for this information.



(Total for Question 14 is 3 marks)

3.

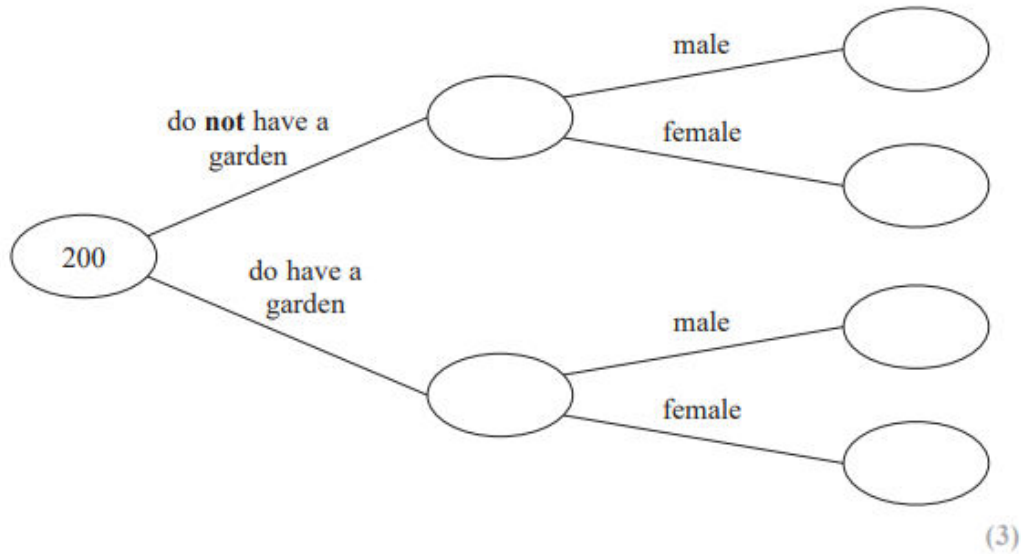
12 200 people live in a village.

23 people do **not** have a garden.

10 males do **not** have a garden.

95 people are male.

(a) Use this information to complete the frequency tree.



One of the people who does **not** have a garden is chosen at random.

(b) Write down the probability that this person is female.

.....
(2)

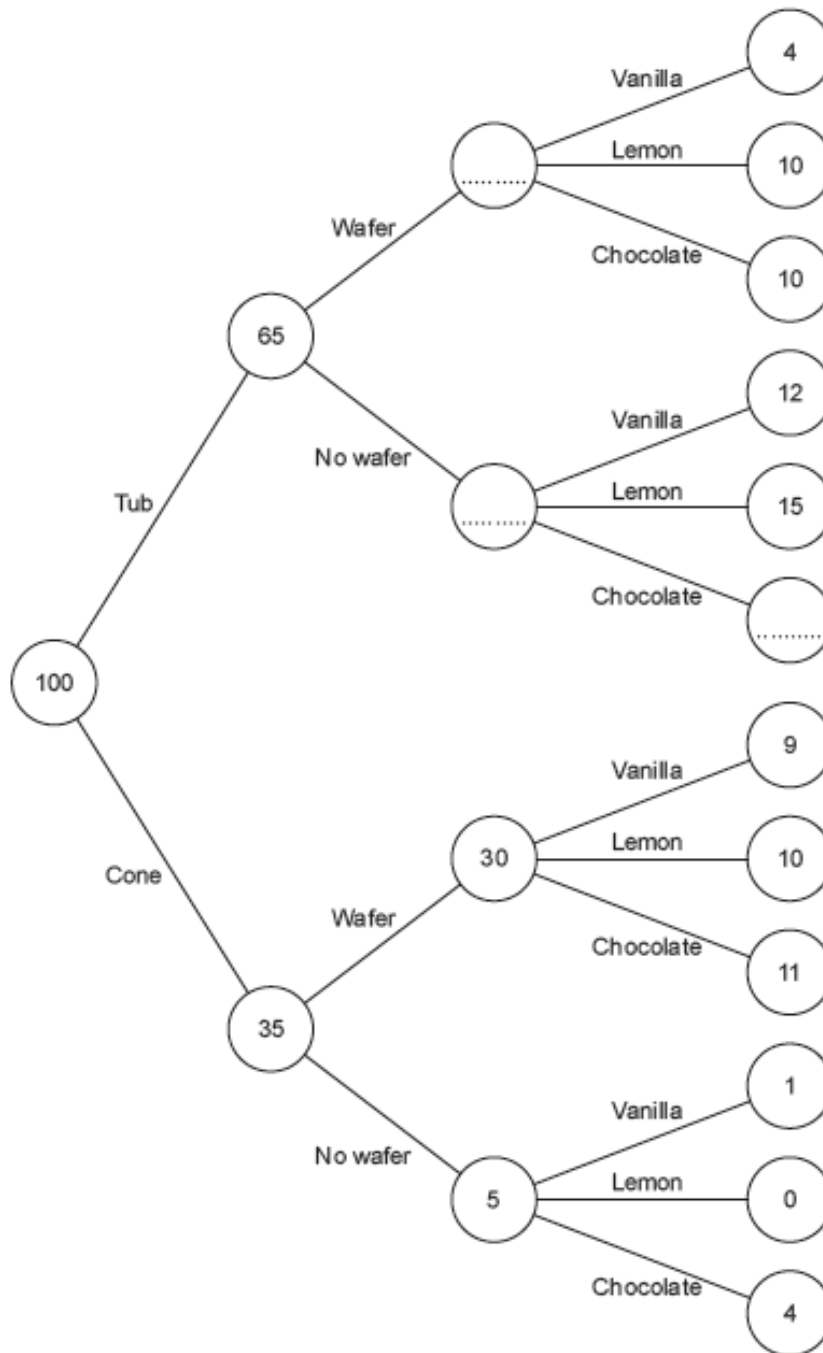
(Total for Question 12 is 5 marks)

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

4.

- 11 Megan's Cafe sells ice cream.
Customers choose to have a tub or a cone, and a wafer or no wafer.
They can choose vanilla, lemon or chocolate ice cream.

This frequency tree shows the number of people making some of the choices.



(a) Anaya buys an ice cream.

One choice she can make is

a cone, no wafer and vanilla.

How many different choices can she make?

(a) [1]

(b) Complete the frequency tree. [2]

(c) Which flavour of ice cream was most popular?
Show how you decide.

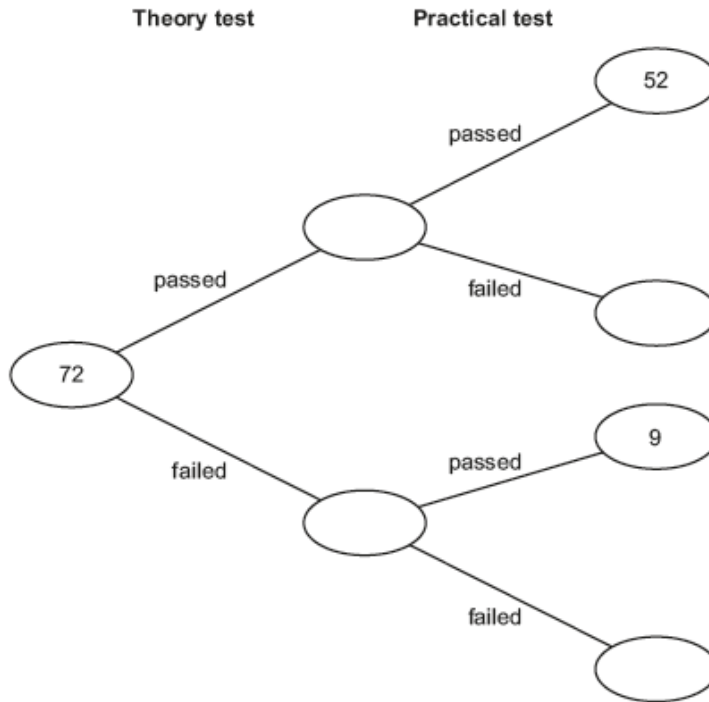
(c) [3]

OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

5.

- 8 72 students each took a theory test followed by a practical test. They either passed or failed each test.

This frequency tree shows some of the results.



- (a) How many students passed both tests?

(a) [1]

- (b) $\frac{5}{6}$ of the 72 students passed the theory test.

Complete the frequency tree. [4]

- (c) Which test was passed by more students? Explain your reasoning.

..... because

.....

..... [3]

Pearson Edexcel – Sample Papers - Paper 1 (Non-Calculator) Foundation Tier

6.

17 100 students had some homework.

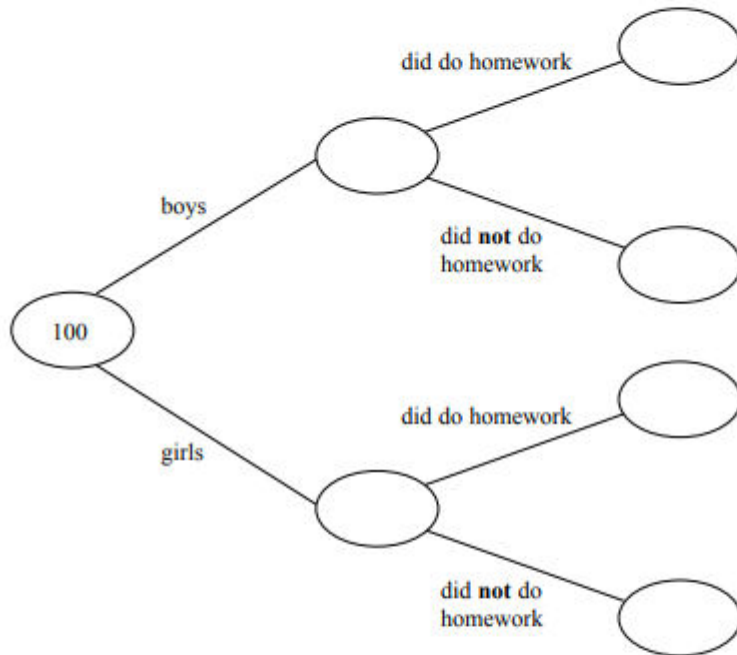
42 of these students are boys.

8 of the 100 students did **not** do their homework.

53 of the girls did do their homework.

(a) Use this information to complete the frequency tree.

(3)



One of the girls is chosen at random.

(b) Work out the probability that this girl did **not** do her homework.

(2)

(Total for Question 17 is 5 marks)

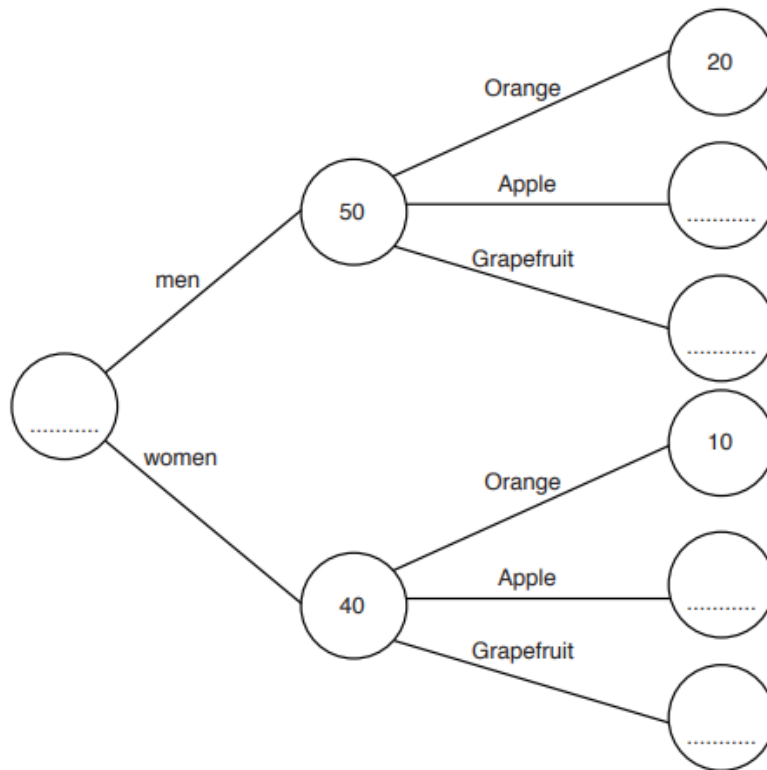
OCR Wednesday 8 November 2017– Morning (Calculator) Foundation Tier

7.

7 (a) A hotel manager asked some people to choose their favourite breakfast fruit juice. They each chose one from Orange, Apple or Grapefruit.

- 20 men chose Orange
- Equal numbers of men chose Apple and Grapefruit.
- 10 women chose Orange
- Twice as many women chose Apple as Grapefruit.

Use this information to complete the frequency tree.



[4]

(b) In one week 200 men have breakfast at the hotel.

(i) How many men may be expected to drink Orange?

(b)(i) [1]

(ii) Give one reason why the number of men who drink Orange in this week may be different to your answer to part (b)(i).

.....
 [1]

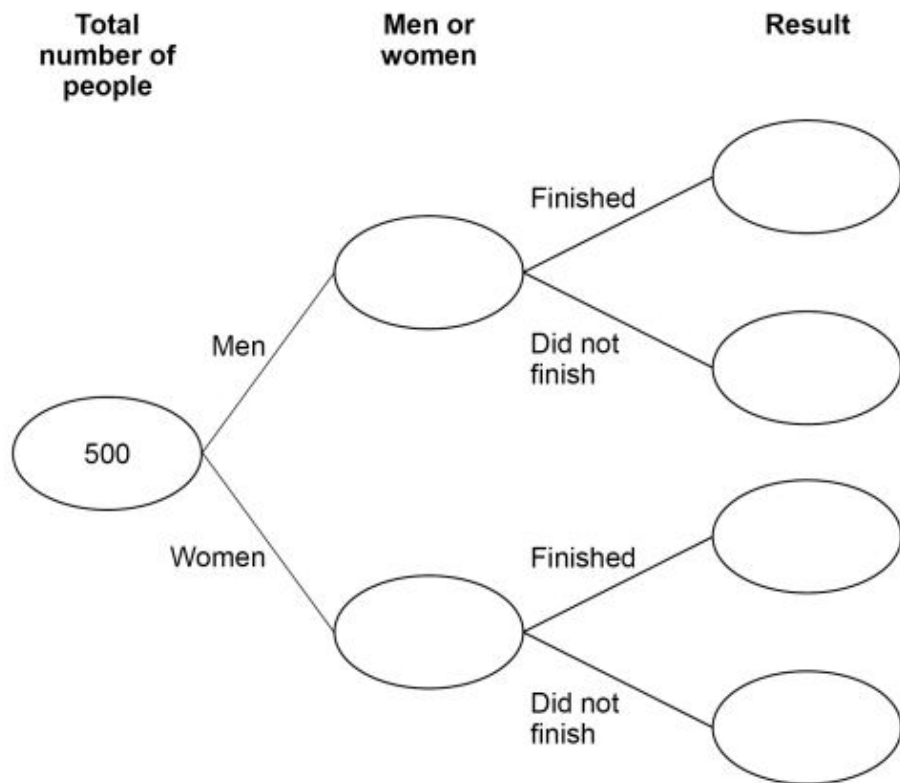
AQA Monday 8 June 2020 – Morning (Calculator) Foundation Tier

8.

- 9 500 people started a race.
 280 were men and the rest were women.
 80% of the men finished the race.
 30 women did **not** finish the race.

Complete the frequency tree.

[5 marks]

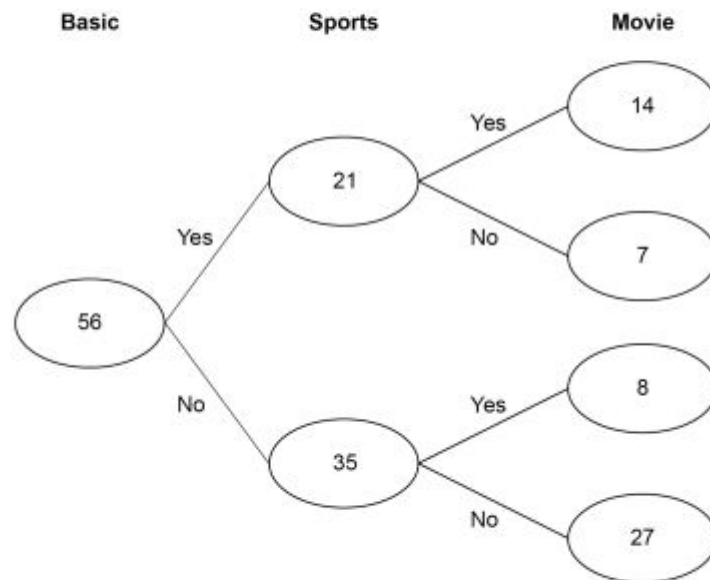


AQA Thursday 6 June 2019 – Morning (Calculator) Foundation Tier

9.

- 9** 56 customers pay for satellite television.
They **all** have the Basic package for £24.50 per month.
Some also have
the Sports package for £27.50 extra per month
the Movie package for £18 extra per month.

The frequency tree shows the number of customers with each package.



AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

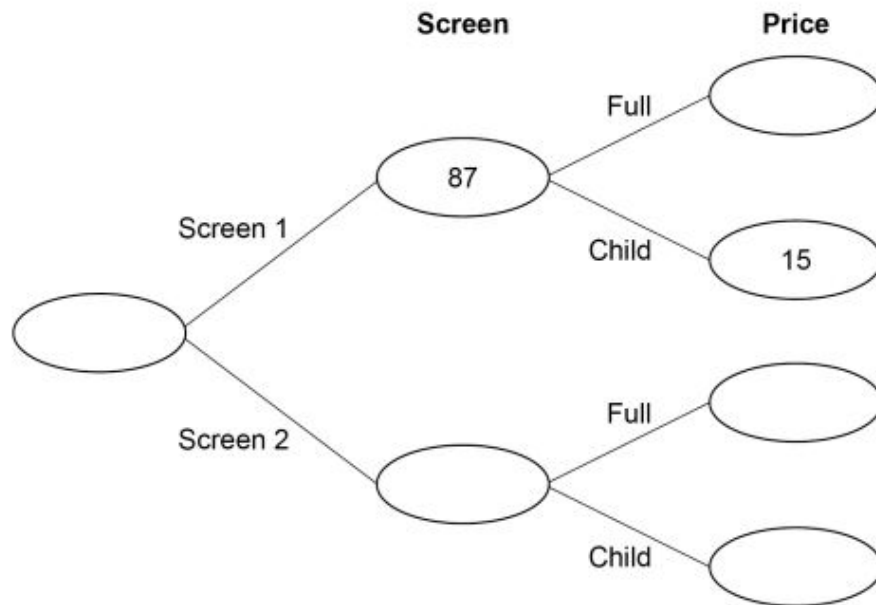
10.

- 8 At a cinema, films are shown on Screen 1 and Screen 2
Customers pay full price or child price.

There are three times as many customers in Screen 2 as Screen 1
68 customers paid child price.

Complete the frequency tree.

[5 marks]



AQA Tuesday 12 June 2018 – Morning (Calculator) Foundation Tier

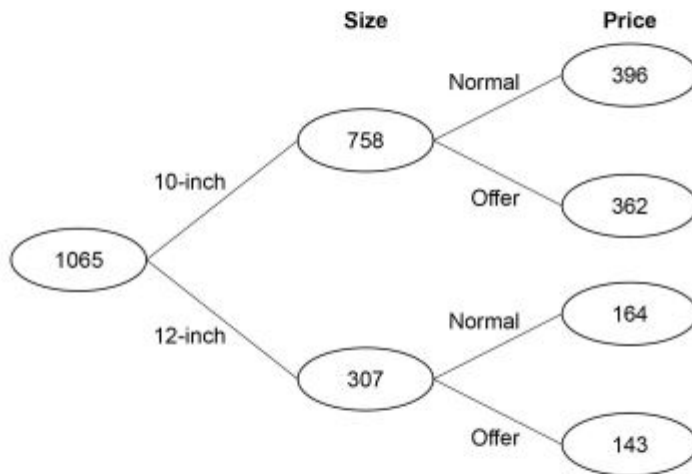
11.

- 12** A takeaway sells 10-inch pizzas and 12-inch pizzas.
Here is some information about the numbers sold in two weeks.

Week 1

10-inch	512
12-inch	231
Total	743

Week 2



- 12 (a)** In each week a proportion of the pizzas sold were 10-inch.

In which week was this proportion greater?

Show working to support your answer.

[2 marks]

Answer _____

AQA Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

12.

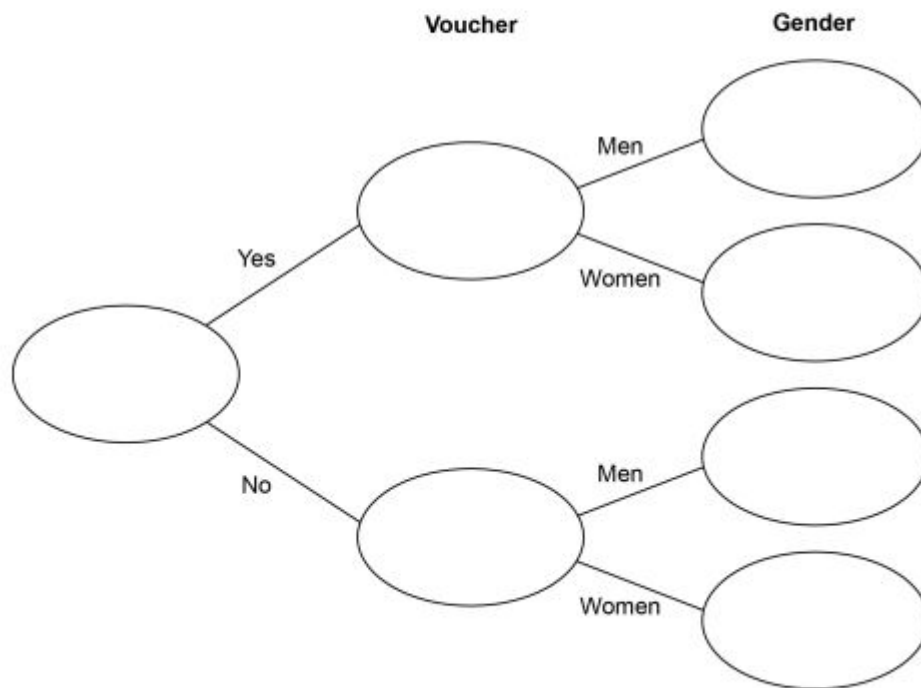
26 42 men and 38 women visit a restaurant.

44 of these people have a voucher.

Three times as many men as women do **not** have a voucher.

26 (a) Complete the frequency tree.

[4 marks]



26 (b) A voucher takes **15% off** the bill.
After using the voucher, the bill for a meal is £27.20
How much was the bill before using the voucher?

[3 marks]

Answer £ _____

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

13.

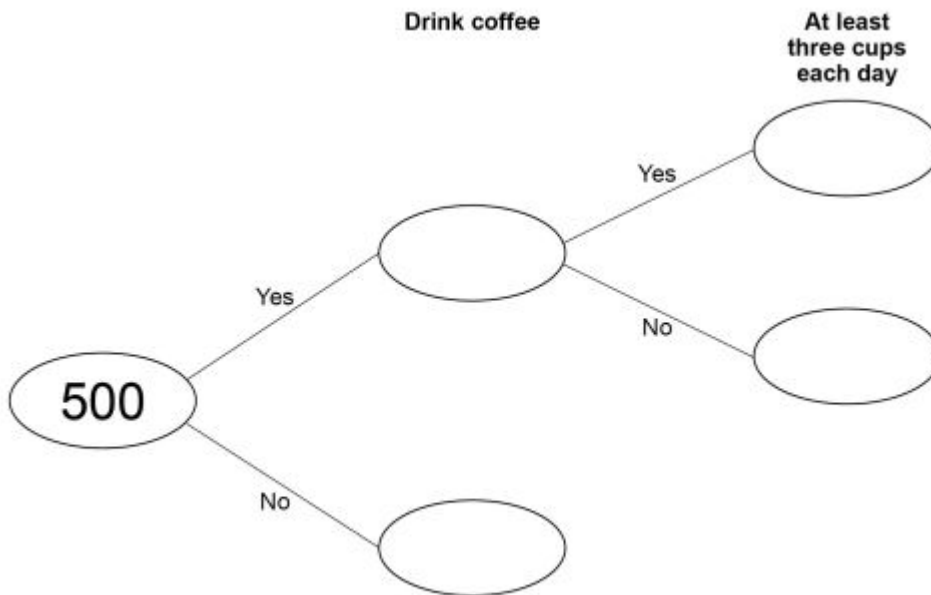
6 500 people are asked if they drink coffee.

$\frac{9}{10}$ say Yes.

20% of the people who say Yes drink at least three cups each day.

6 (a) Complete the frequency tree.

[4 marks]



6 (b) What fraction of the 500 people drink at least three cups of coffee each day?
Give your answer in its simplest form.

[2 marks]

Answer _____