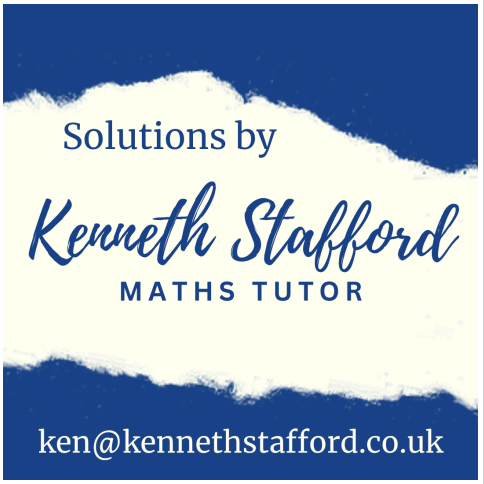
Name: SOLUTIONS

GCSE (1 - 9)

Frequency Trees





These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

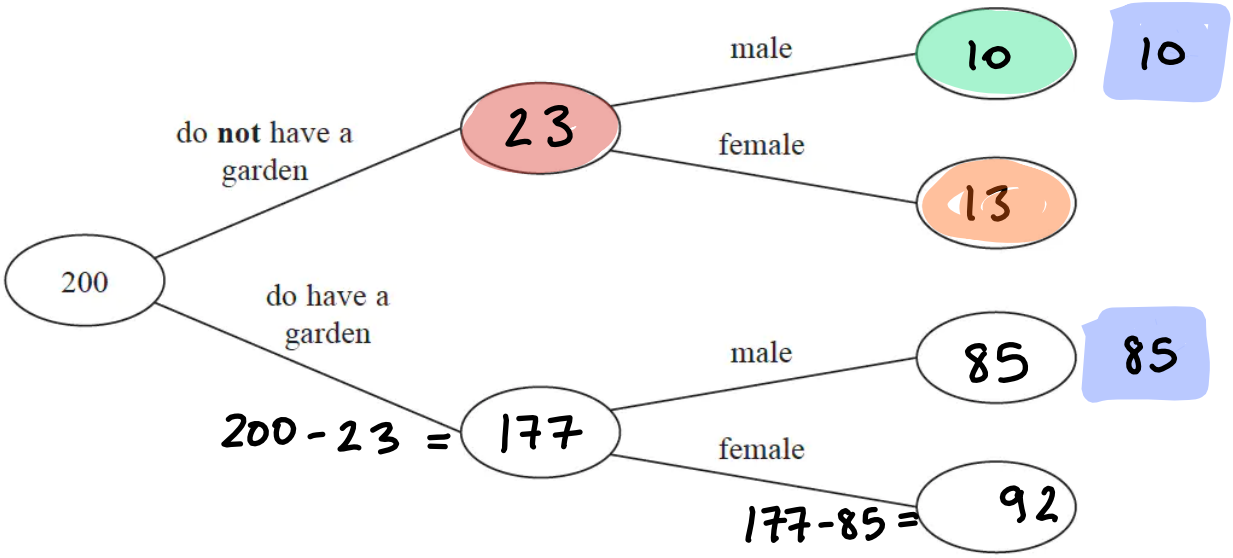
Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 2F, Q12
2	Edexcel, GCSE, Summer 2018, Paper 2F, Q14
3	Edexcel, GCSE, Autumn 2018, Paper 1F, Q17
4	Edexcel, GCSE, Autumn 2019, Paper 1F, Q15
5	Edexcel, GCSE, Summer 2023, Paper 2F, Q19
6	Edexcel, GCSE, Summer 2022, Paper 1F, Q17

1

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.



(3)

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

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

13/23

(2)

(Total for Question 12 is 5 marks)

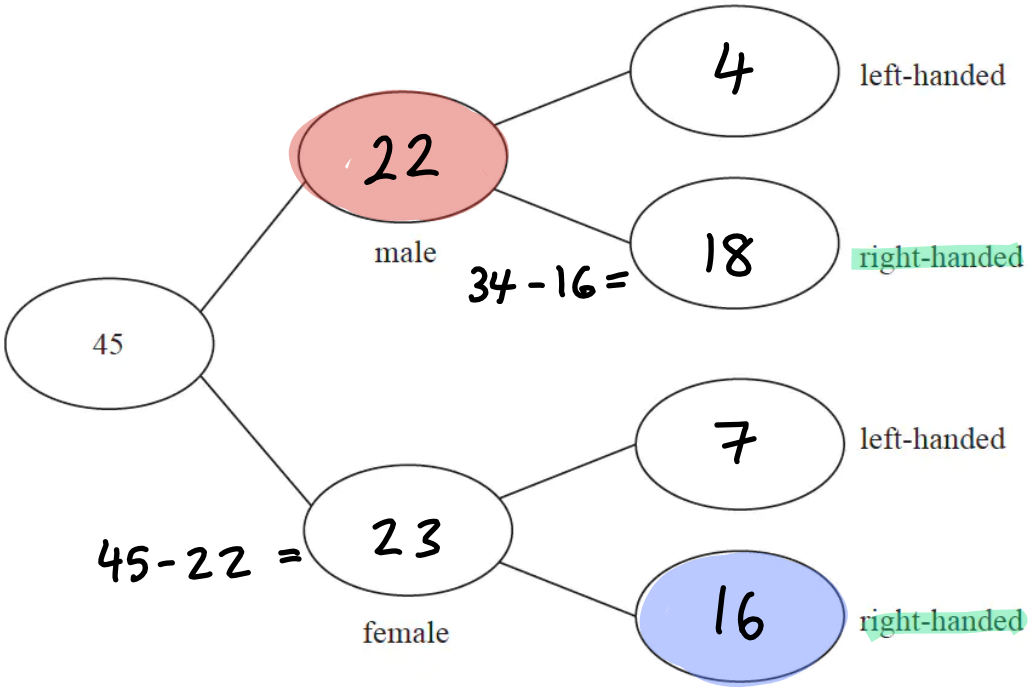
[Edexcel, GCSE, Autumn 2017, Paper 2F, Q12]

2

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)

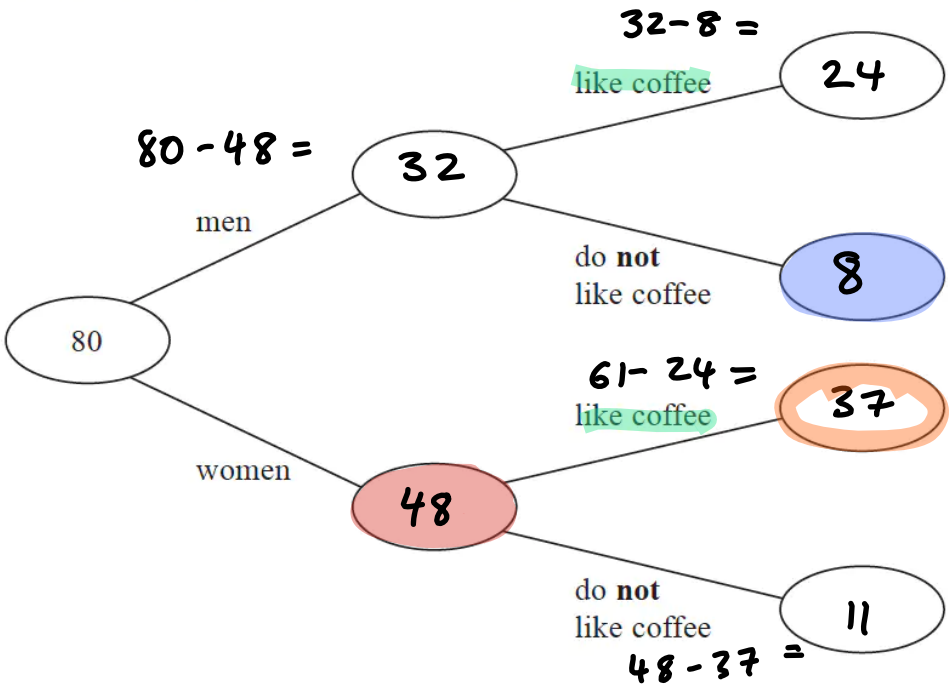
[Edexcel, GCSE, Summer 2018, Paper 2F, Q14]

3

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.

$\frac{37}{61}$

(2)

(Total for Question 17 is 5 marks)

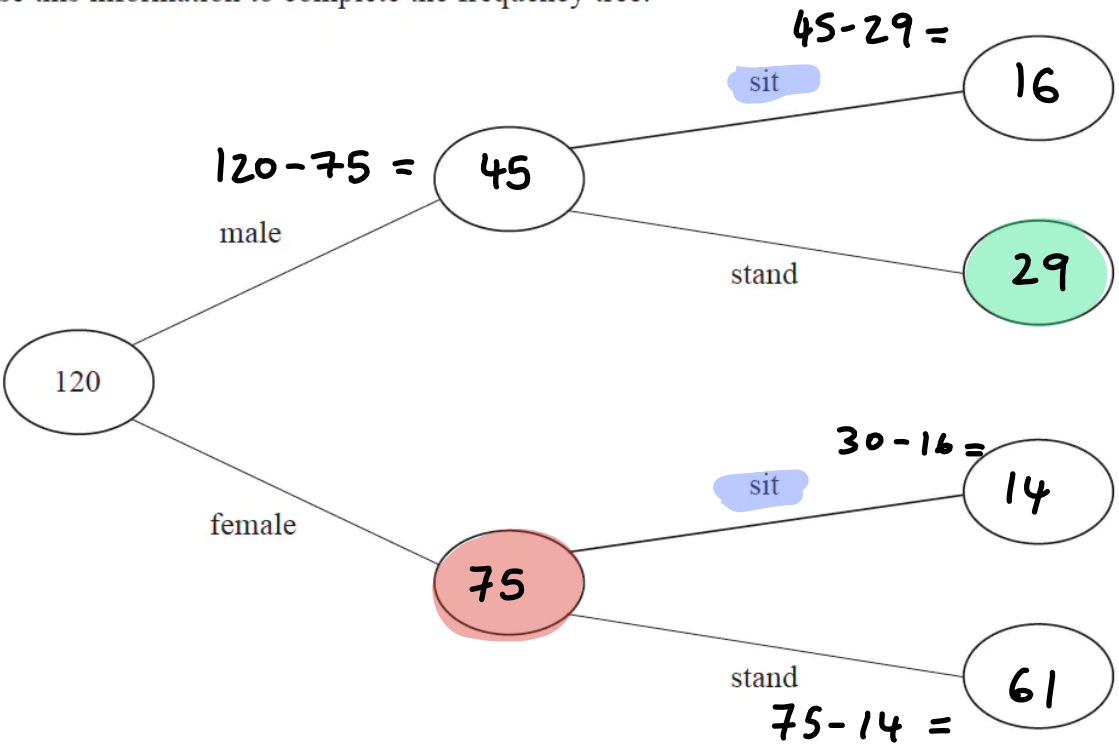
[Edexcel, GCSE, Autumn 2018, Paper 1F, Q17]

4 120 people were at a hockey match.

Each person was asked if they wanted to stand or to sit to watch the match.

75 of the people were female
29 of the males wanted to stand
30 of the people wanted to sit

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



(3)

One of the 120 people is chosen at random.

(b) Write down the probability that this person is a male who wanted to stand.

$\frac{29}{120}$

(1)

(Total for Question 15 is 4 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q15]

5

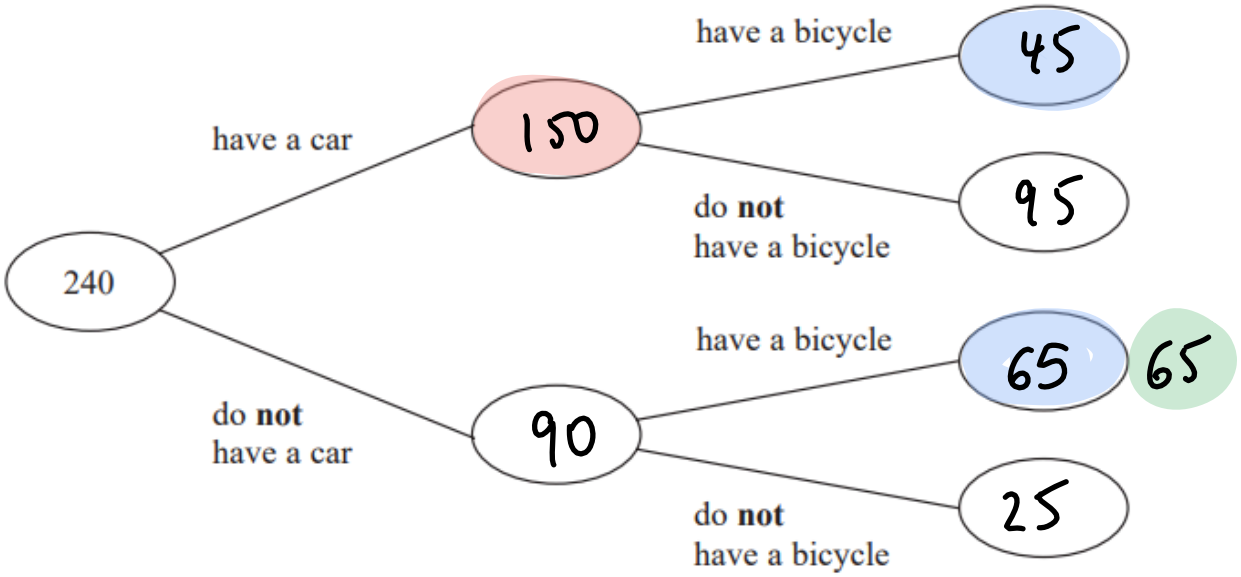
240 people work at a factory.

Of these people

150 have a car
110 have a bicycle
65 of the people who have a bicycle do **not** have a car.

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

110 - 65 = 45



(3)

(b) What percentage of the 150 people who have a car also have a bicycle?

$\frac{45}{150} = \frac{3}{10} = 0.3$

30 %

(2)

(Total for Question 19 is 5 marks)

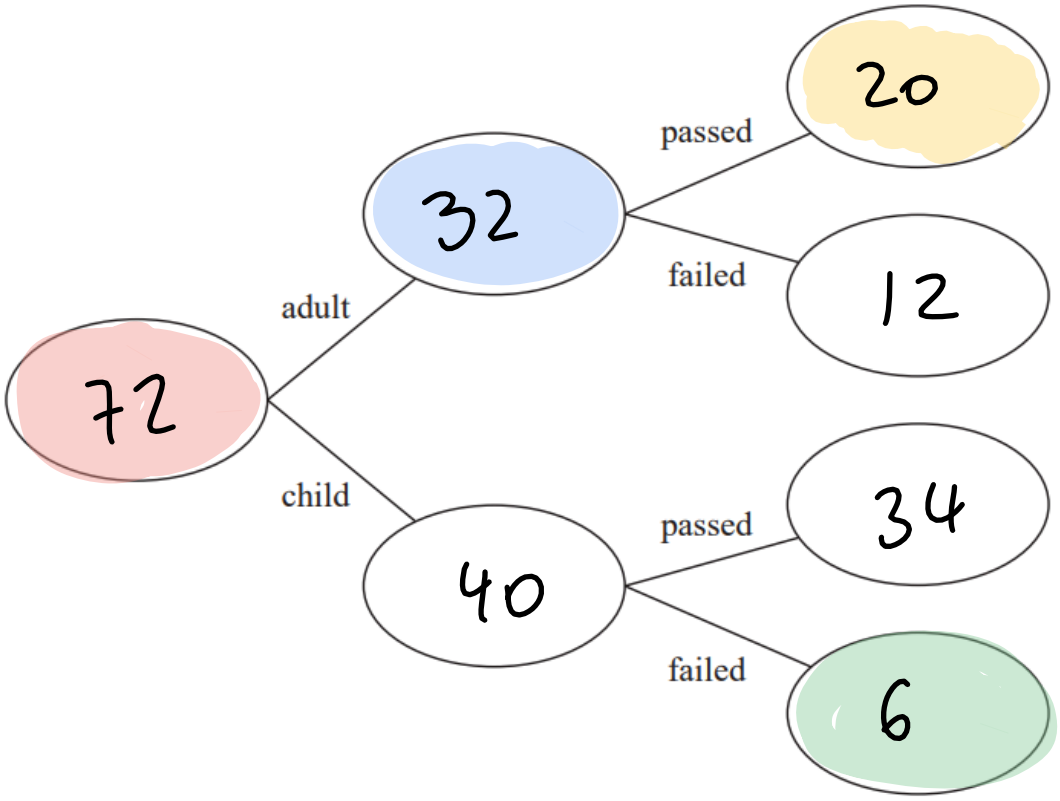
[Edexcel, GCSE, Summer 2023, Paper 2F, Q19]

6

72 people did a test.

20 of the 32 adults who did the test passed.
6 of the children who did the test failed.

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



(3)

One of these people is picked at random.

(b) Find the probability that this person is an adult who failed the test.

$\frac{12}{72} = \frac{1}{6}$

(2)

(Total for Question 17 is 5 marks)

[Edexcel, GCSE, Summer 2022, Paper 1F, Q17]