Name Class



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Frequency trees

(9 – 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- •Use black ink or ball-point pen.
- •Fill in the boxes at the top of this page with your name, centre number and candidate number.
- •Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- •Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.
- •If the question is a **1F** question you are not allowed to use a calculator.
- •If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

Information

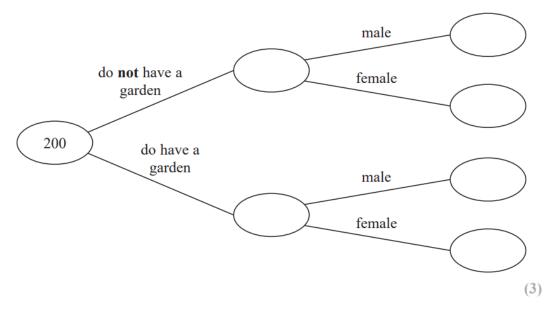
- •The marks for **each** question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.

Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working.

- 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.

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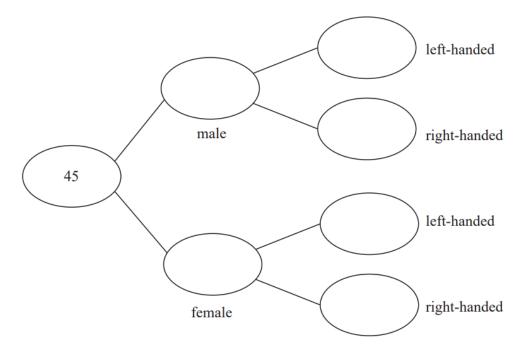
November 2017 – Paper 2F

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.



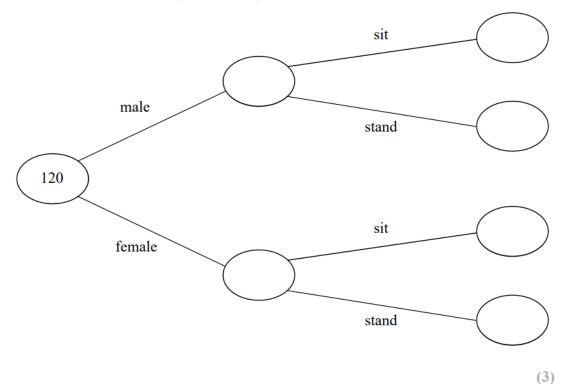
May 2018 – Paper 2F

15 120 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.



One of the 120 people is chosen at random.

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

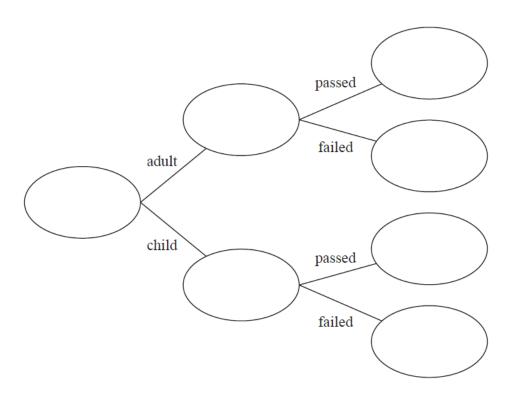
(1)	

November 2019 – Paper 1F

17 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.

(2)

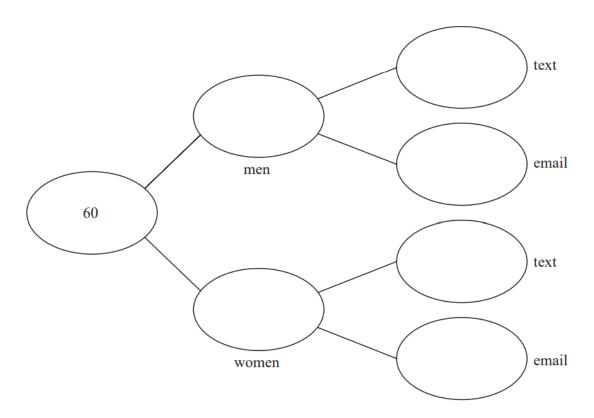
17 60 people are asked if they prefer to text or to email their friends.

38 of the people are women and the rest are men.

15 of the men prefer to email their friends.

60% of the people prefer to text their friends.

Complete the frequency tree for this information.



November 2021 – Paper 1F

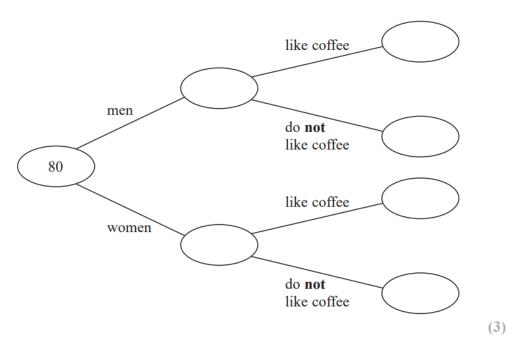
17 80 people are asked if they like coffee.

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.



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

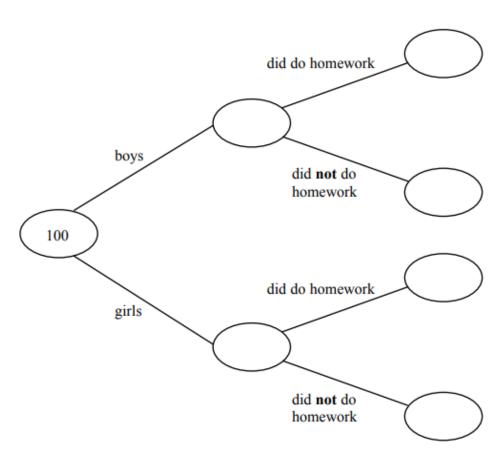
(b) Find the probability that this person is a woman.

(2)

November 2018 – Paper 1F

- 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)

Sample 1 – Paper 1F