



THIRD SPACE
LEARNING

GCSE Exam Questions

Frequency Trees | Probability

GCSE Exam Questions: Frequency Trees

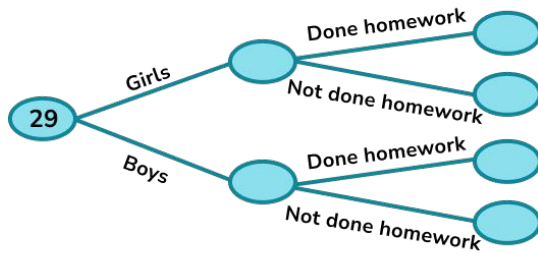
1) (a) A class has 29 children.

14 of the children are girls.

11 of the girls have done their homework.

9 of the boys have done their homework.

Complete the frequency tree.



(3)

(b) A student is picked at random.

Work out the probability that the student is a girl who has **not** done her homework.

(2)

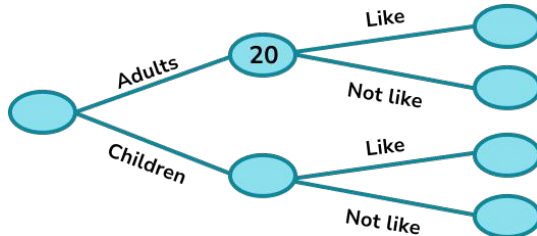
(5 marks)

GCSE Exam Questions: Frequency Trees

2) (a) A computer game company surveyed 20 adults and 30 children about a new game.

12 adults and 19 children liked the new game.

Complete the frequency tree.



(3)

(b) A person is picked at random.

Work out the probability that the person is a child who does **not** like the new game.

(2)

(5 marks)

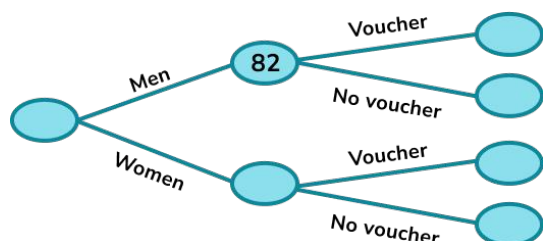
GCSE Exam Questions: Frequency Trees

3) (a) 82 men and 68 women visit a restaurant.

80 of these people have a voucher.

Four times as many men have a voucher as women who have a voucher.

Complete the frequency tree.



(4)

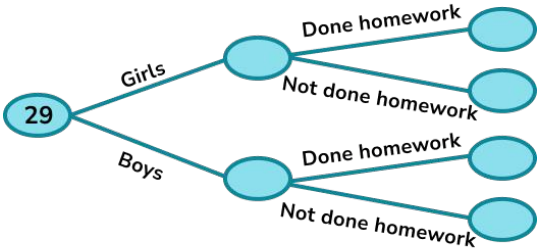
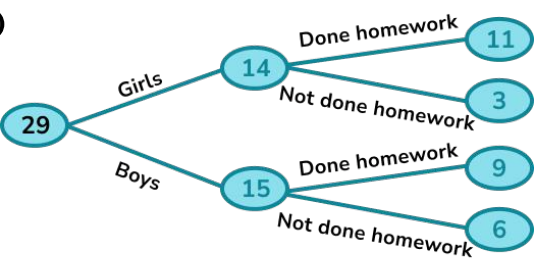
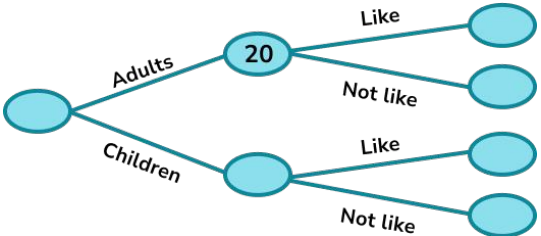
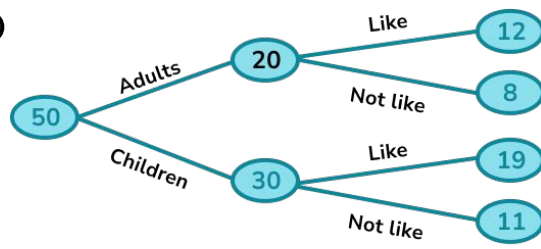
(b) A person is picked at random.

Work out the probability that the person is a man without a voucher.

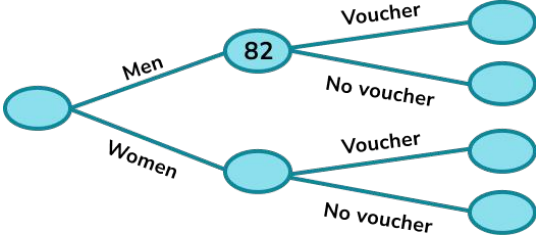
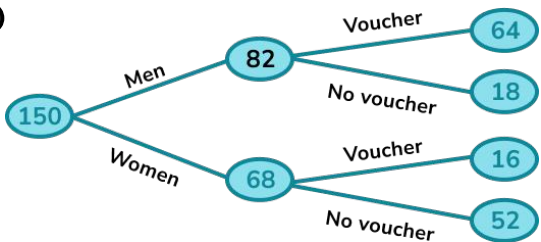
(2)

(6 marks)

GCSE Exam Questions: Frequency Trees Answers

	Question	Answer	Marks
1) (a)	A class has 29 students. 14 of the students are girls. 11 of the girls have done their homework and 9 of the boys have done their homework Complete the frequency tree. 	(a)  For 1-2 correct entries For 3-5 correct entries For all 6 correct entries	(1) (1) (1)
(b)	A student is picked at random. Work out the probability that the student is a girl who has NOT done her homework.	(b) $\frac{3}{x}$ or $\frac{x}{29}$ $\frac{3}{29}$	(1) (1)
2) (a)	A computer game company surveyed 20 adults and 30 children about a new game. 12 adults and 19 children liked the new game. Complete the frequency tree. 	(a)  For 1-2 correct entries For 3-5 correct entries For all 6 correct entries	(1) (1) (1)
(b)	A person is picked at random. Work out the probability that the person is a child who does NOT like the new game.	(b) $\frac{11}{x}$ or $\frac{x}{50}$ $\frac{11}{50}$	(1) (1)

GCSE Exam Questions: Frequency Trees Answers

	Question	Answer	Marks
3) (a)	82 men and 68 women visit a restaurant. 80 of these people have a voucher. Four times as many men have a voucher as women who have a voucher. Complete the frequency tree. 	(a)  For 150 or 68 in the correct place $150 - 70 = 80$ For 64 and 16 in the correct places For 18 and 52 in the correct places	(1) (1) (1) (1)
(b)	A person is picked at random. Work out the probability that the person is a man without a voucher.	(b) $\frac{18}{x}$ or $\frac{x}{150}$ $\frac{18}{150}$ oe	(1) (1)

Where to go next?

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