

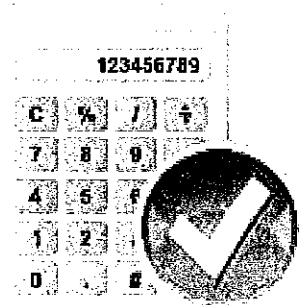
Year 11 – Set 5
Revision Homework
Easter Holidays

Name: _____

Teacher: _____

Instructions

- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- 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.
- Try to answer every question.
- Check your answers.

It is important that you put maximum effort into all homework tasks!

If you are having problems with any of the questions use the Corbett Maths website to support you. We have put the relevant video number next to each question to help you.

The following sites may also be useful:

- PiXL Maths App
- MrBartonMaths – use the student section
- Mathsgenie
- MyMaths (croftonhs, pentagon)
- GCSE Bitesize

Your Class teacher will go through the questions in the first week after Easter.

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write $\frac{7}{100}$ as a decimal.

Video number 128

(Total for Question 1 is 1 mark)

2 Write down a multiple of 6 that is between 40 and 50

Video number 220

(Total for Question 2 is 1 mark)

3 (a) Simplify $3f \times 5g$

Video numbers 18, 9 and 11

(b) Simplify $t \times t$

(c) Simplify $\frac{2n + 6n}{2}$

(Total for Question 3 is 3 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

4 Ken buys some fruit.

He buys apples, bananas, peaches and oranges.

Ken buys

- 4 apples weighing 125 g each
- 2 bananas weighing 170 g each
- 3 peaches weighing 135 g each

Each orange has a weight of 90 g.

The fruit has a total weight of 1.785 kg.

(a) Work out how many oranges Ken buys.

Jane wants to buy 15 tomatoes.

She asks for 1 kg of tomatoes at a shop.

Jane assumes that each tomato has a weight of 75 g.

(b) (i) If Jane's assumption is correct, will she get 15 tomatoes?
You must show how you get your answer.

(ii) If Jane's assumption is **not** correct, could she get 15 tomatoes?
Justify your answer.

(Total for Question 4 is 6 marks)



5 60 students were asked how they get to school.

The table shows the results.

	Bus	Walk	Car	Bicycle
Number of students	15	27	12	6

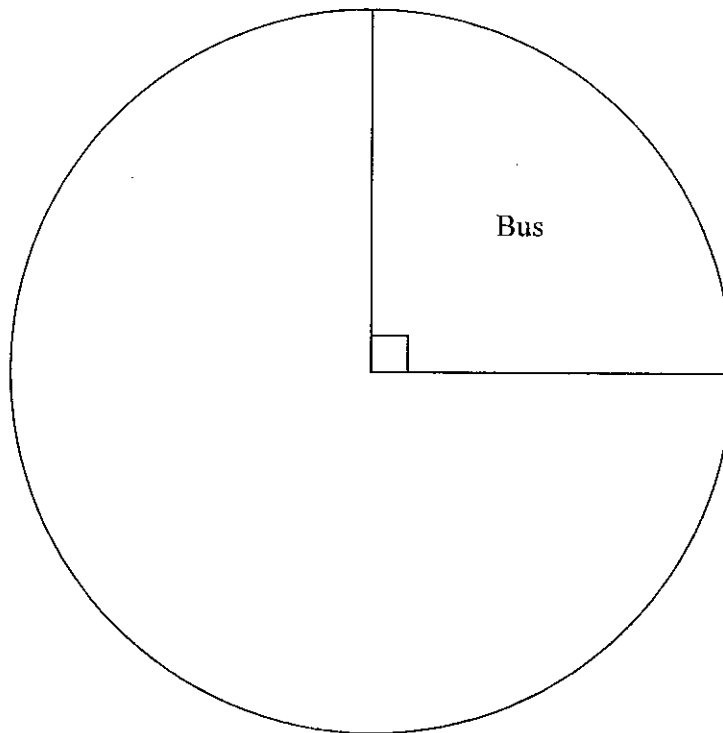
(a) What fraction of the 60 students did **not** walk to school?

Video number
136

(2)

(b) Complete the pie chart for the information in the table.

Video number
163



(Total for Question 5 is 6 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Video number
269a

6 Annie and Lily share some money in the ratio 4 : 3

(a) What fraction of the money does Lily get?

(1)

Rosie and Dan share some sweets.

Dan gets $\frac{1}{4}$ of the sweets.

(b) Write down the ratio of the number of sweets Rosie gets to the number of sweets Dan gets.

(Total for Question 6 is 2 marks)

Video number
225

7 Steve says,

“There are more prime numbers between 20 and 30 than there are between 10 and 20”

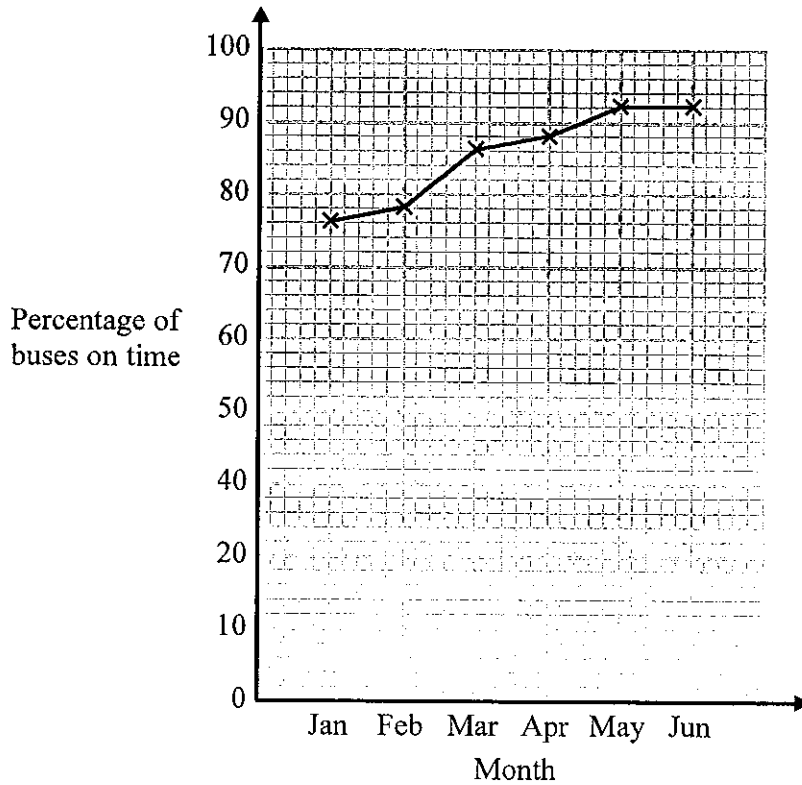
Is Steve right?

You must show how you get your answer.

(Total for Question 7 is 2 marks)



- 8 Chrissy drew this graph to show the percentage of buses that got to a bus stop on time for six months.



- (a) Write down one thing that is wrong with the graph.

- (b) Describe the trend in the percentage of buses that got to the bus stop on time.

(Total for Question 8 is 2 marks)

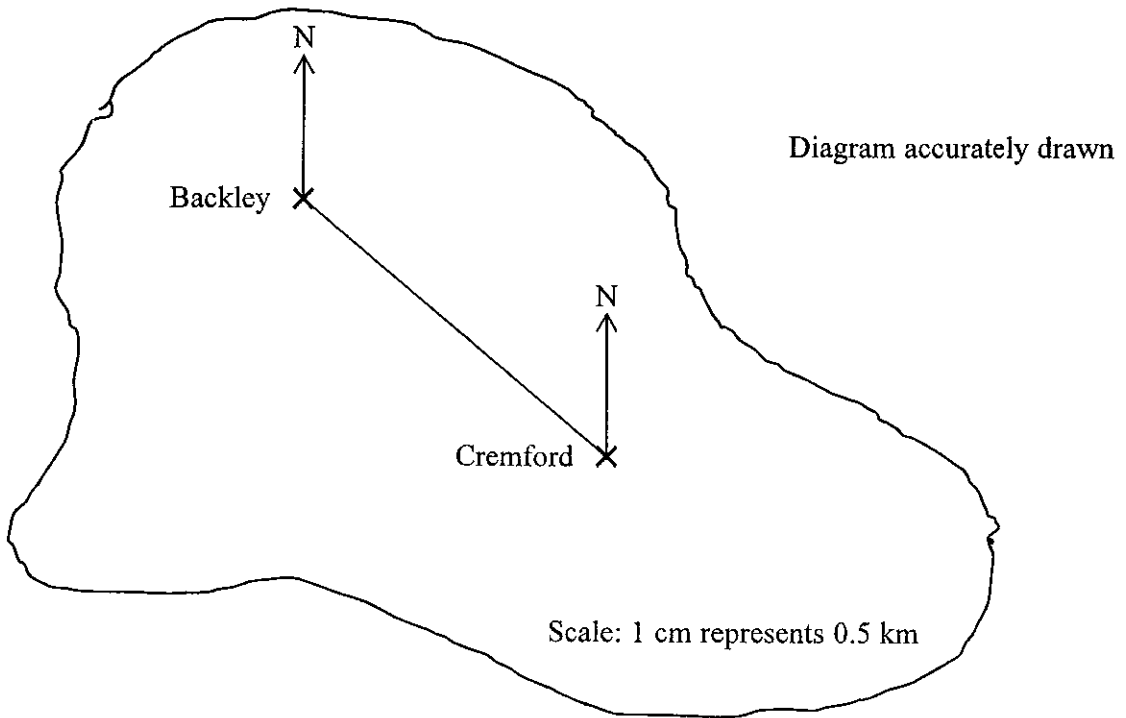


DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

9 Here is a map of an island.



A straight road joins the two villages, Backley and Cremford.

(a) Work out the real distance between the two villages.

Video number 283

..... km

(b) Find the bearing of Cremford from Backley.

Video number 26

.....
.....

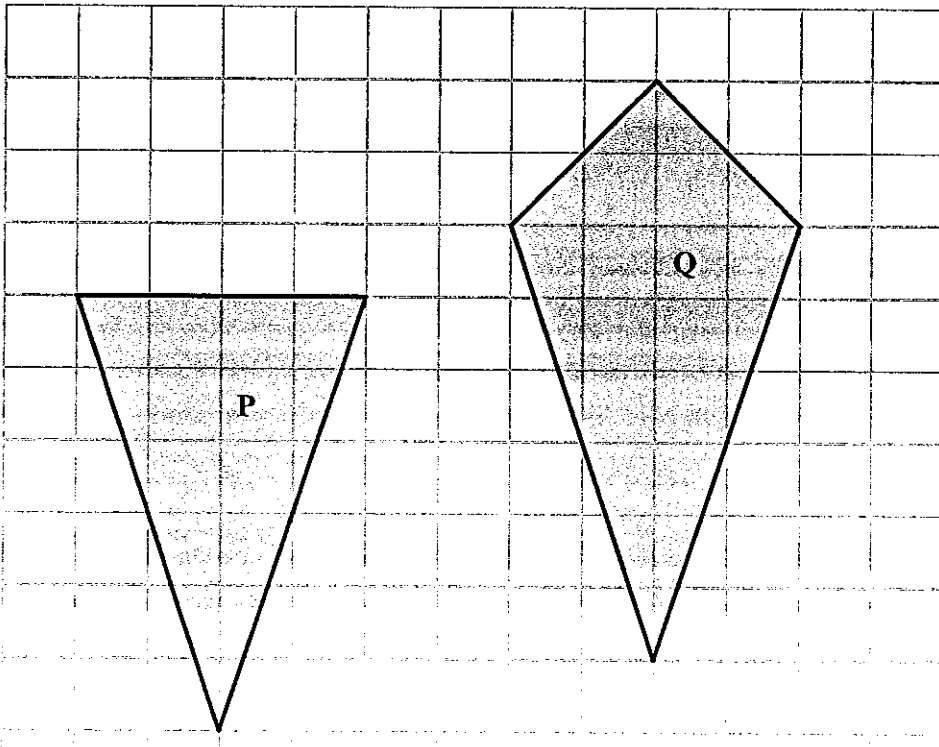
(Total for Question 9 is 3 marks)



P 4 9 3 6 0 A 0 7 2 4

DO NOT WRITE IN THIS AREA

10 The diagram shows two shapes drawn on a centimetre grid.



(a) Find the area of shape P. *Video number 43*

(b) Write down the mathematical name of quadrilateral Q.

Video number 2

(Total for Question 10 is 3 marks)



11 The table shows a cricket club's income in 2016 from a fete, a quiz and membership fees.

	Income	
Fete	£250	
Quiz	Entry fees	13 at £5 each
	Refreshments	£35
Membership fees	25 at £20 each	

Express as a ratio

the income from the fete to the income from the quiz to the income from membership fees.

Give your ratio in its simplest form.

Video number 269

(Total for Question 11 is 3 marks)



Video number 376

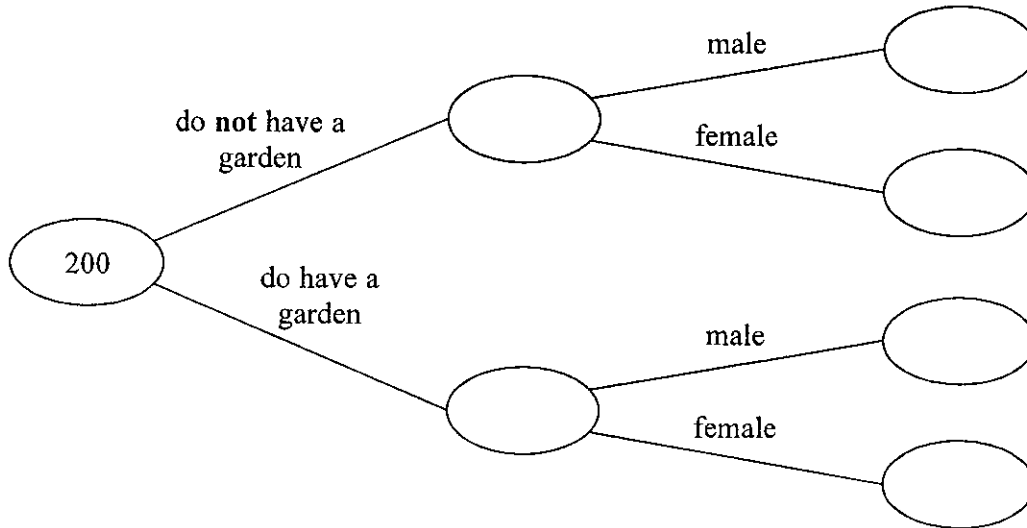
12 200 people live in a village.

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.

(Total for Question 12 is 5 marks)



13 Ellie makes hats.
She makes at least 17 hats per hour.
She is paid 46p for each hat she makes.

Reaze is a waiter.
He works 35 hours and is paid a total of £266

Show that Ellie's hourly rate of pay is more than Reaze's hourly rate of pay.

(Total for Question 13 is 3 marks)

