

| Please write clearly in block capitals. | | | | | | | | |
|---|------------------|--|--|--|--|--|--|--|
| Centre number | Candidate number | | | | | | | |
| Surname | | | | | | | | |
| Forename(s) | | | | | | | | |
| Candidate signature | | | | | | | | |

GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

Thursday 2 November 2017

Morning

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

mathematical instruments

You must **not** use a calculator.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

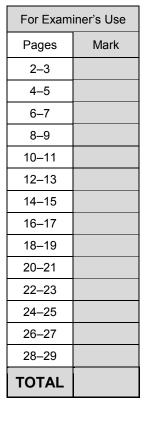
Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

• In all calculations, show clearly how you work out your answer.







Please note that these worked solutions have neither been provided nor approved by AQA and may not necessarily constitute the only possible solutions. Please refer to the original mark schemes for full guidance.

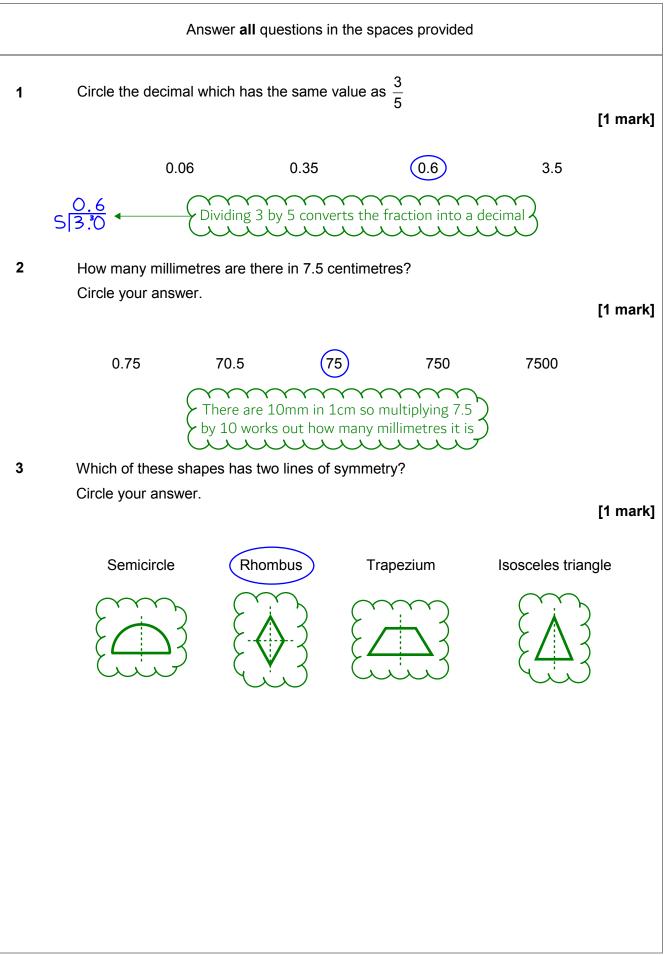
Any writing in blue indicates what must be written in order to answer the questions and get the marks. The worked solutions have been designed to show the smallest amount of work which needs to be done to answer the question.

Anything written in green in a cloud doesn't have to be written in the exam.

Anything written in orange in a rectangle doesn't have to be written in the exam and is there to show what should be put into a calculator or measured using a ruler or protractor.

If you find any mistakes or have any requests or suggestions, please send an email to curtis@cgmaths.co.uk

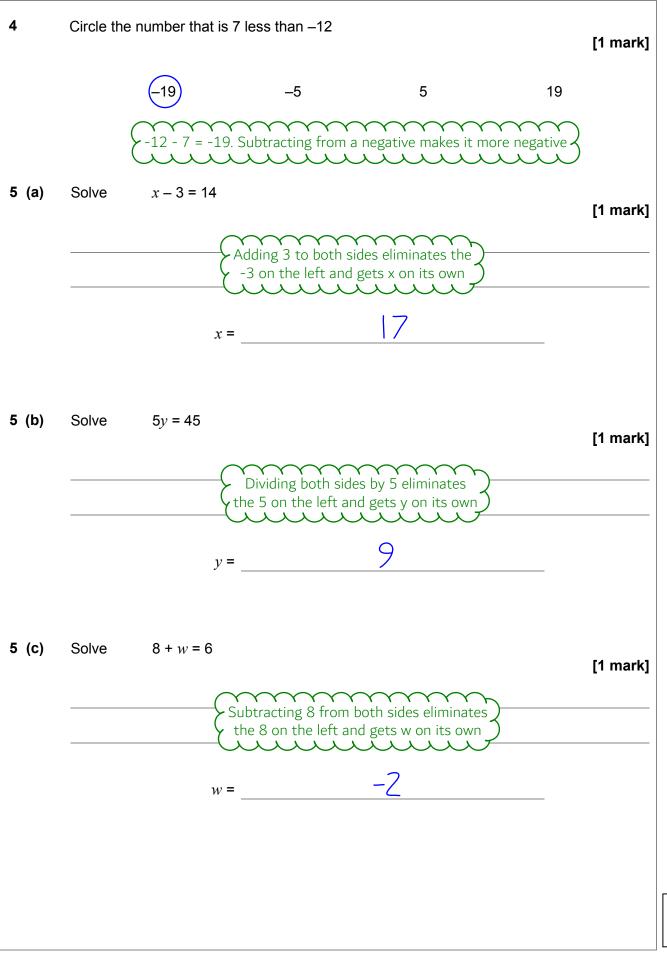








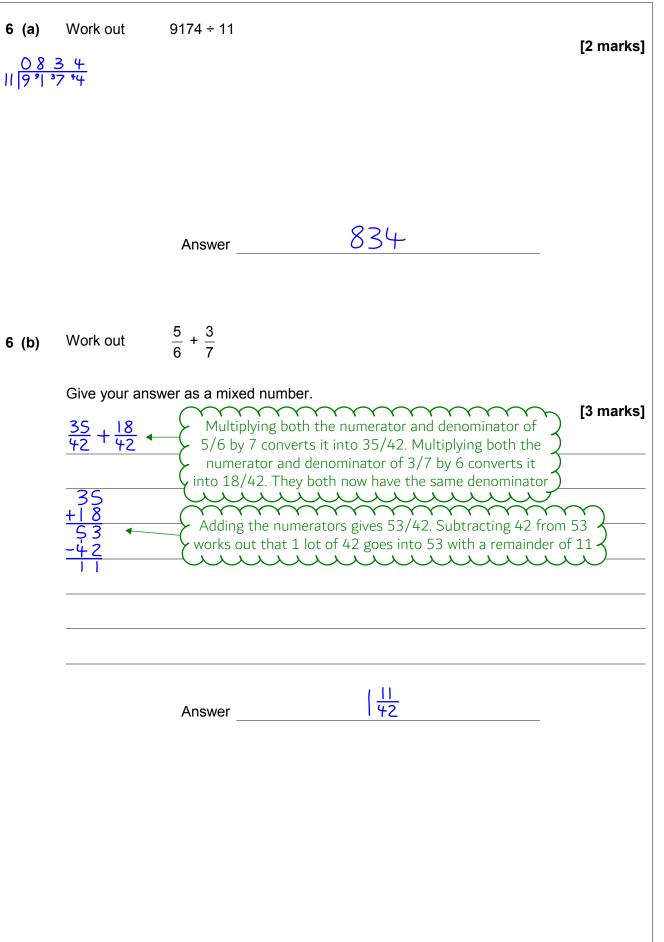




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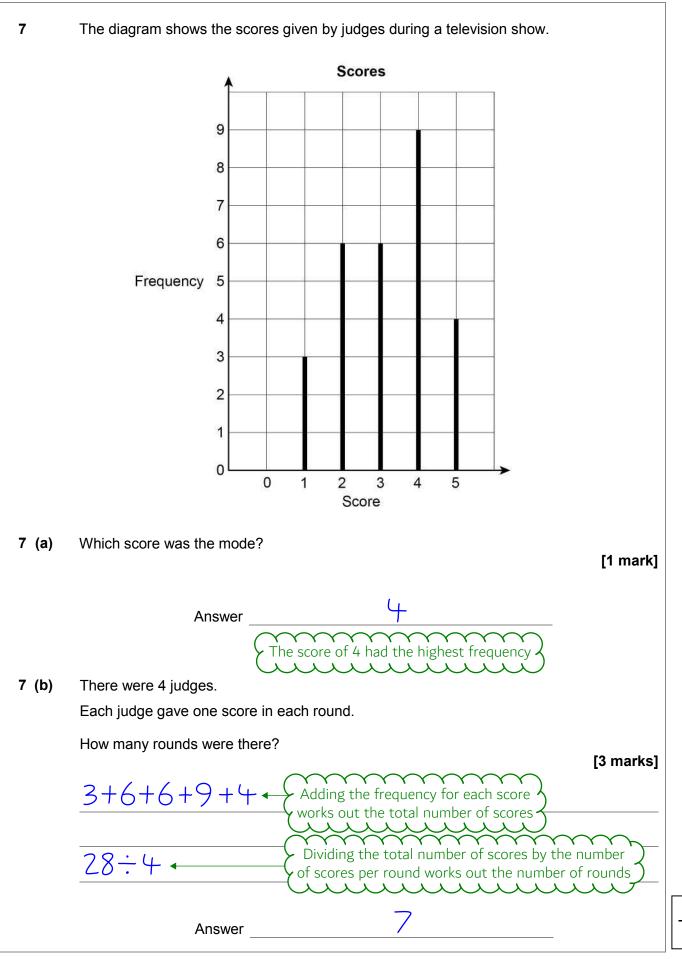


Turn over ►



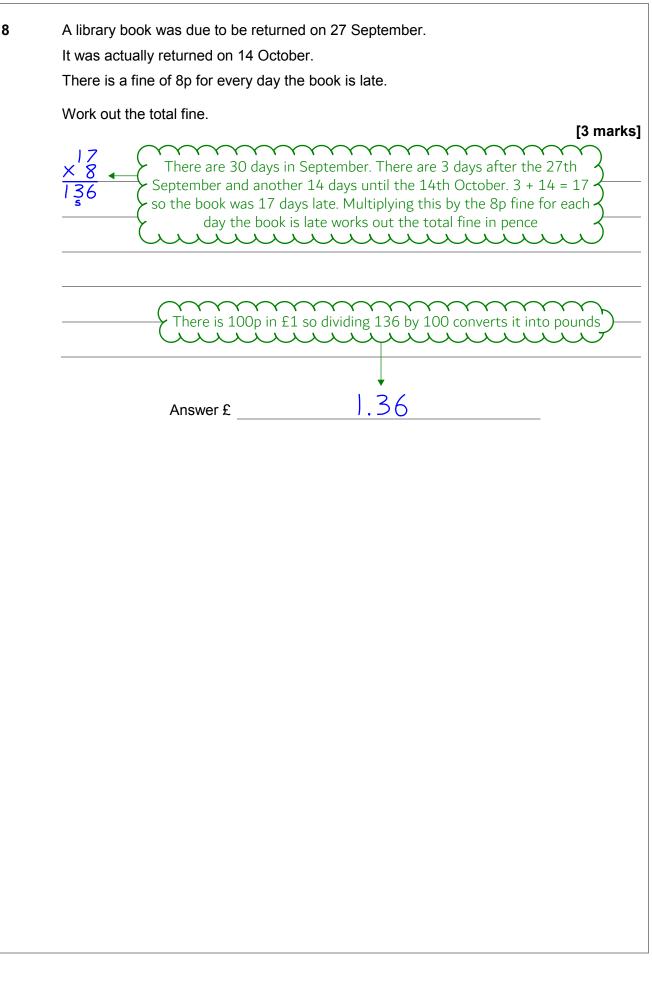






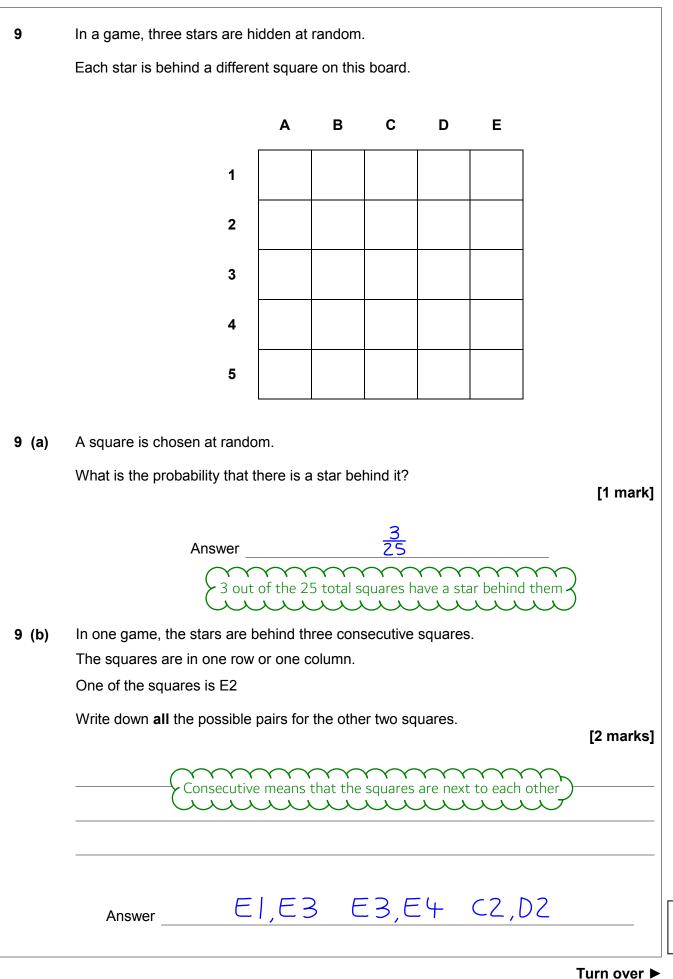


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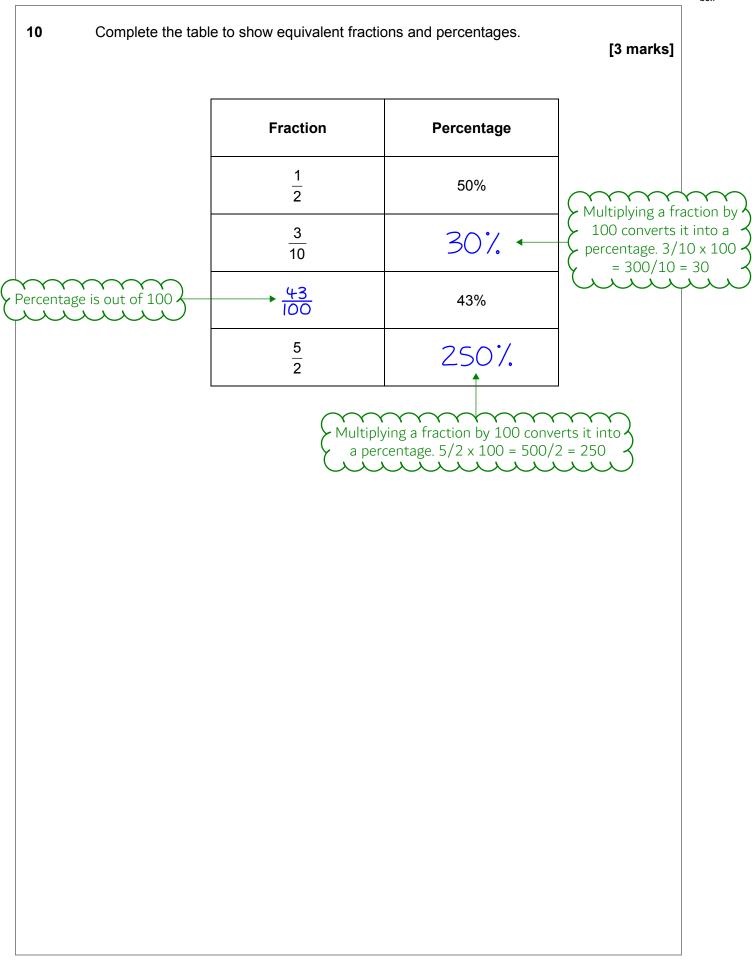






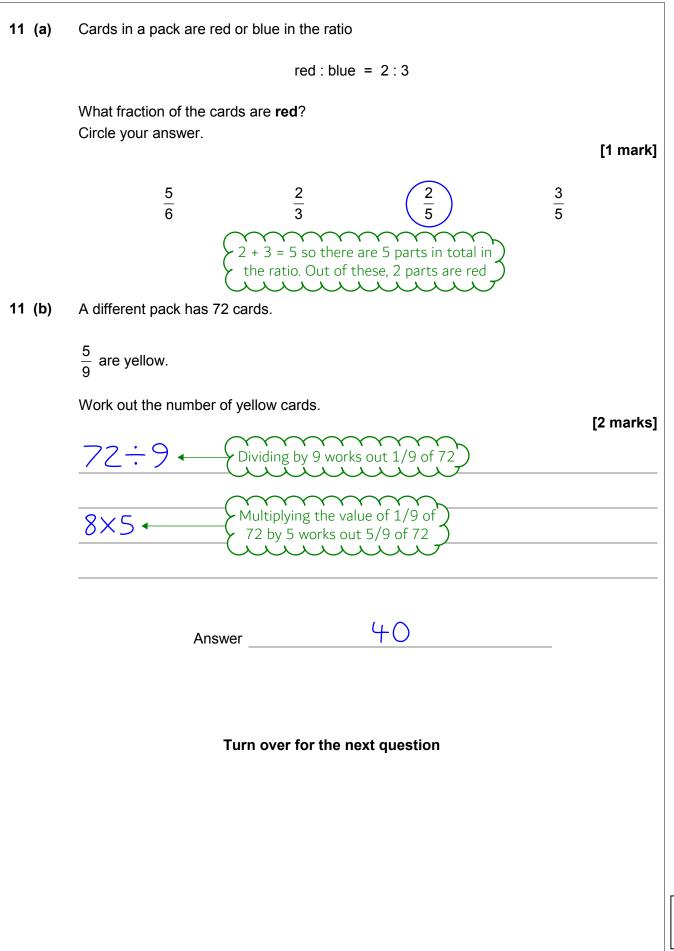






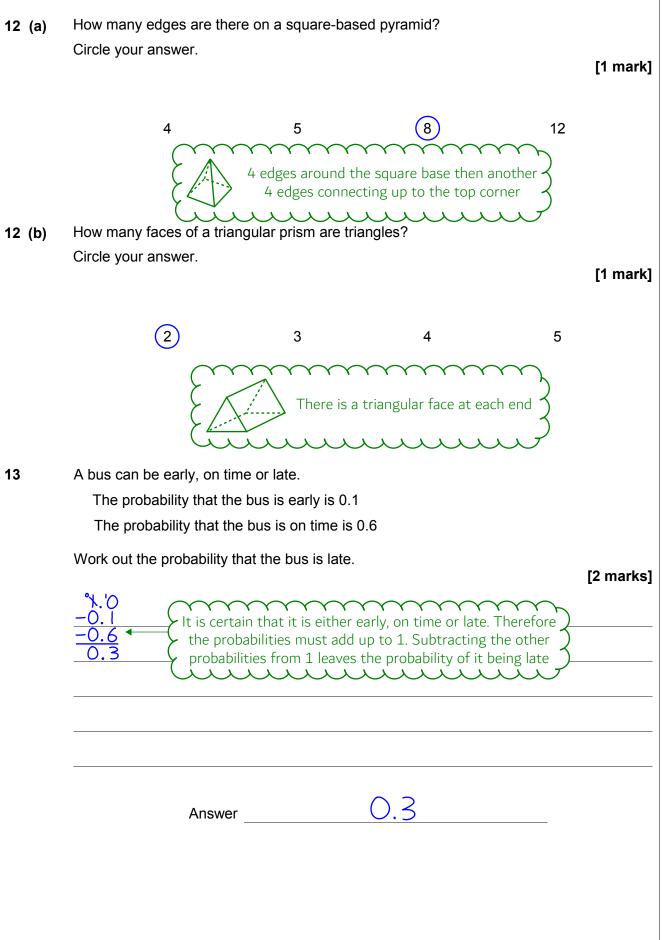






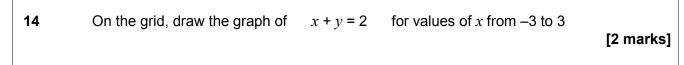




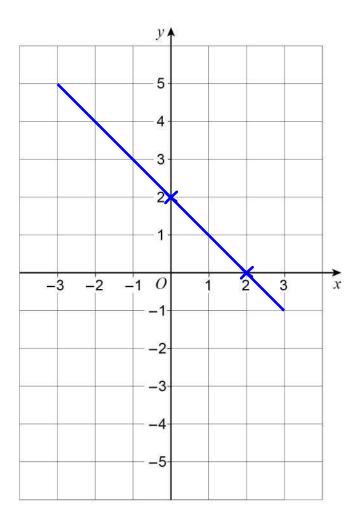








When x = 0, y = 2 as 0 + 2 = 2. Plotting the point (0, 2). When y = 0,
x = 2 as 2 + 0 = 2. Plotting the point (2, 0). The graph is a straight
line as there are no powers of x or y and they are not denominators
so a straight line can be drawn through both of these points



Turn over for the next question



| 15 | 5% of a number is 31 1% of the same number is 6.2 Work out 13% of the number. 6.2 $\times 1.3$ | [3 marks] |
|----|---|-----------|
| | 18.6 Multiplying the value of 1% by 13 works out 13% 62.0 80.6 | |
| | Answer 80.6 | |
| | | |
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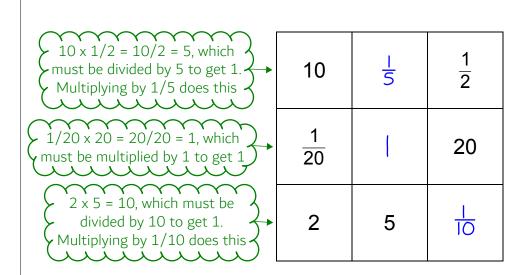


16 Complete the grid so that when you

multiply the three numbers in any column, row or diagonal the answer is 1

13

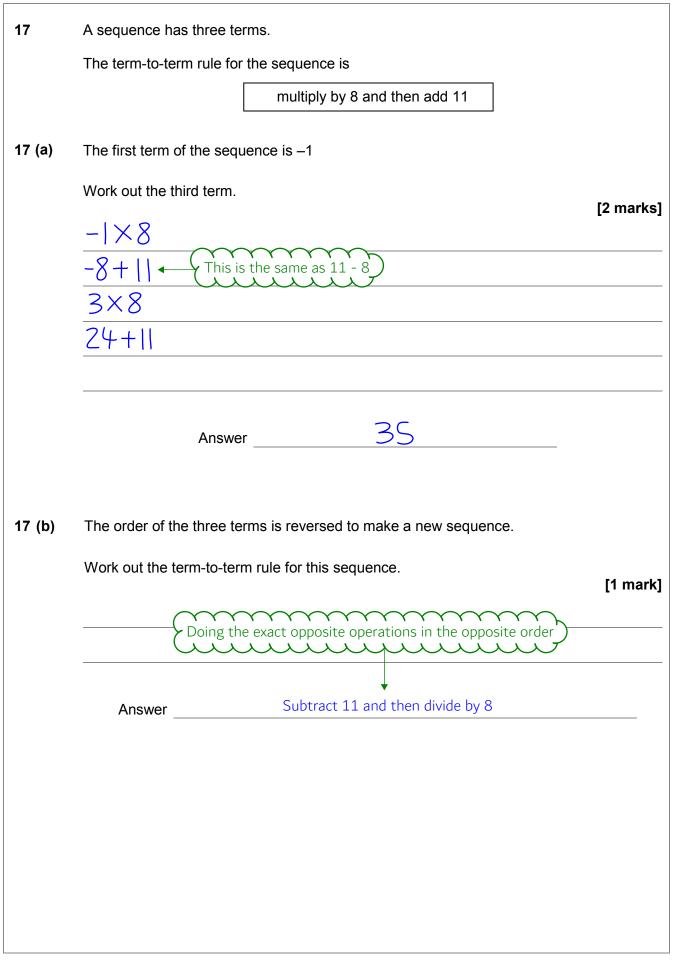
[3 marks]



Turn over for the next question

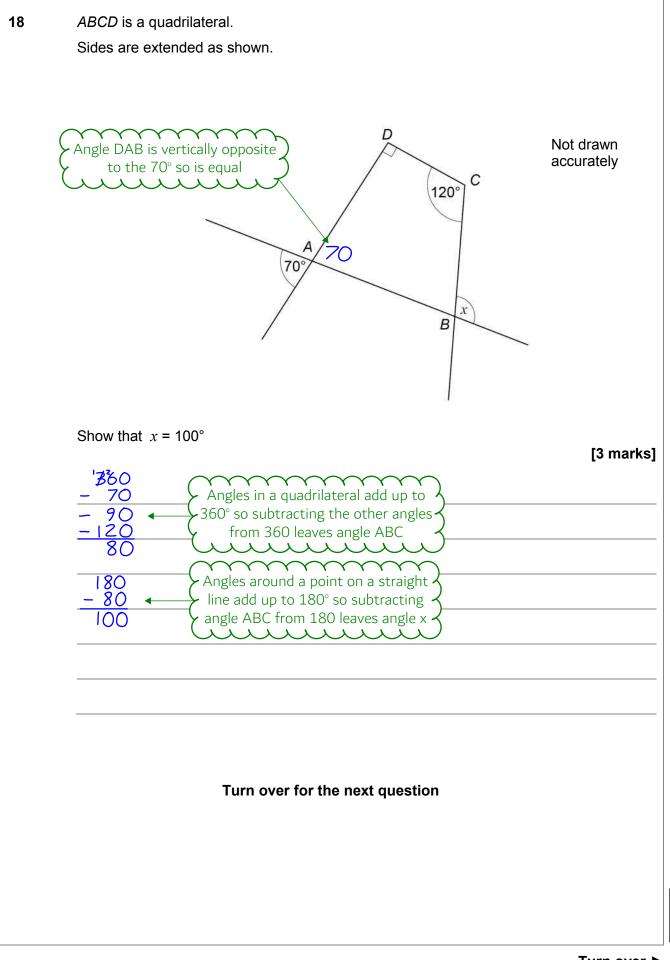












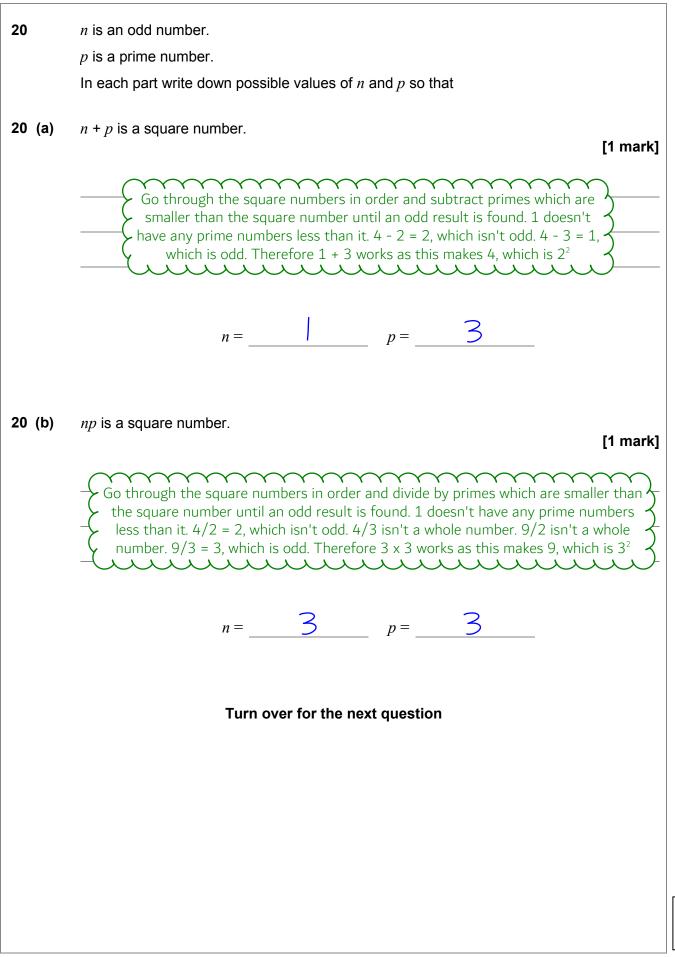




| 19 | Use | 2 gallons = 9 litres | to convert 17 gallons into litres. | [3 marks] |
|----|--------------------|----------------------|--|-----------|
| | 08 2[]'7 | <u>.5</u> .0 | This works out how many lots of 2 gallons the 17 gallons is | |
| | 8.5 × 9 76.5 | • | Every lot of 2 gallons is 9 litres | |
| | | | | |
| | | Answer _ | 76.5 | litres |
| | | | | |
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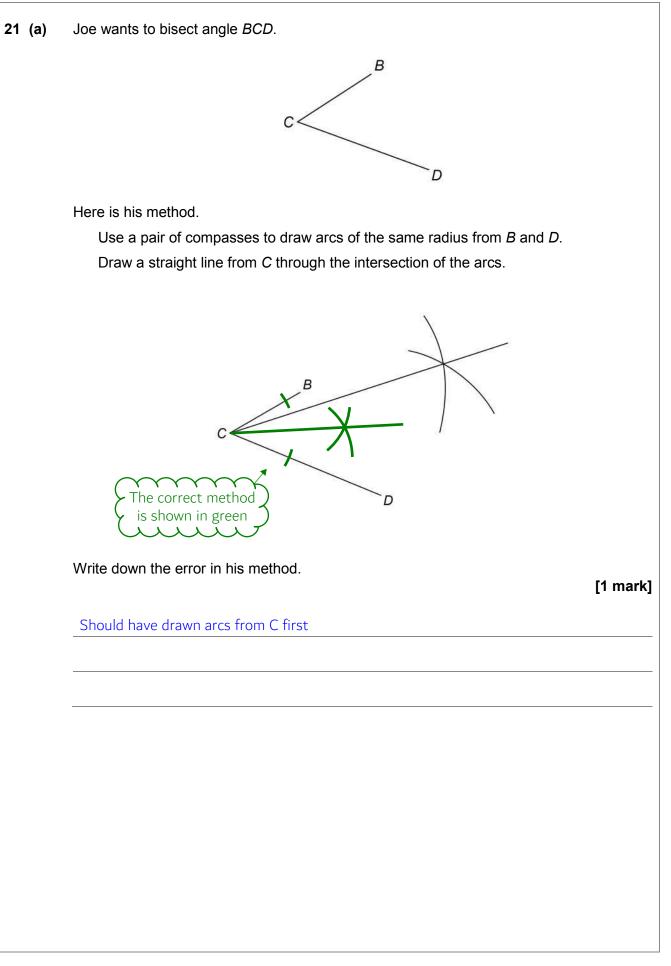






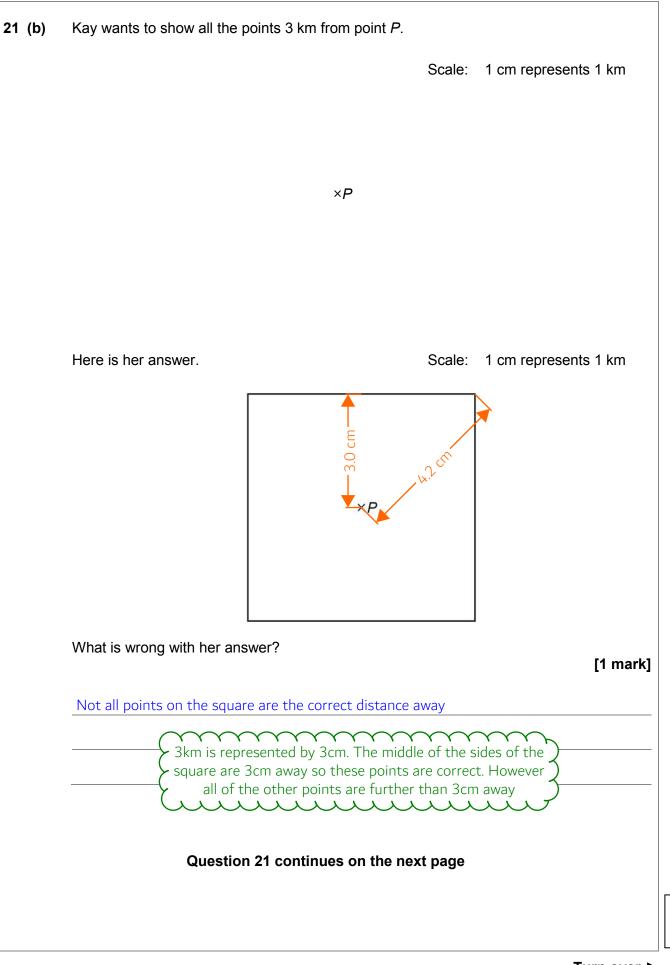
.CG Maths.





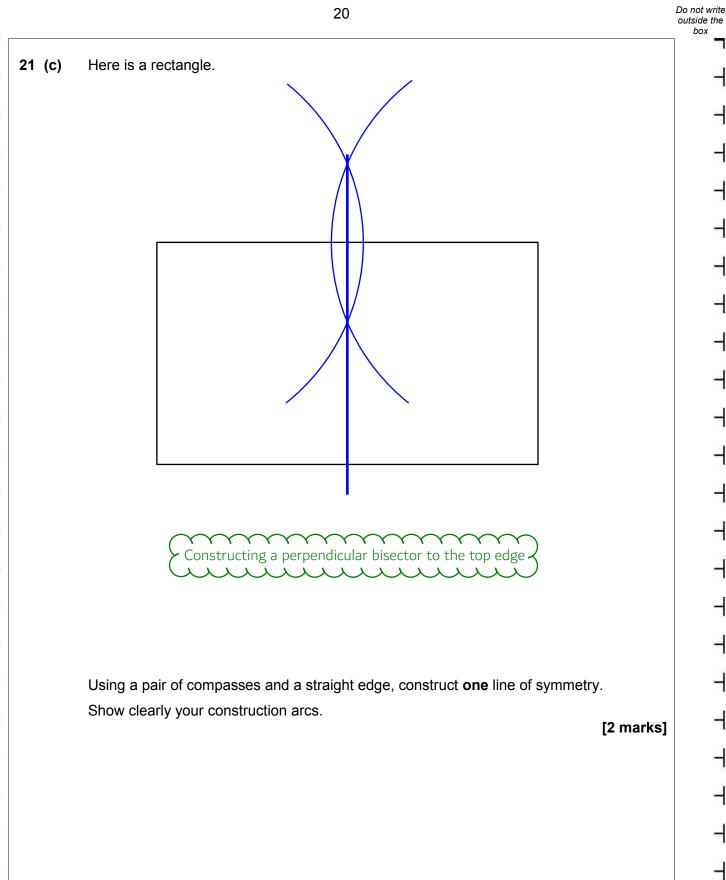














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box

22 x: y = 7:4x + y = 88Work out the value of x - y[3 marks] 7+4 There are 11 parts in total and these represent a total of 88. Dividing 88 by 11 works out what 1 part is worth 88 8 Multiplying the worth of 1 part by 7 and 4 works out the value of x and y 67 Subtracting the value of y from the value of x -4 24 Answer Turn over for the next question



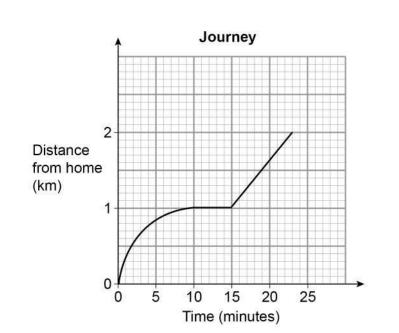
23 Anil's home is 1 km from a shop.

He walked from home to the shop at a constant speed in 10 minutes.

He stayed at the shop for 5 minutes.

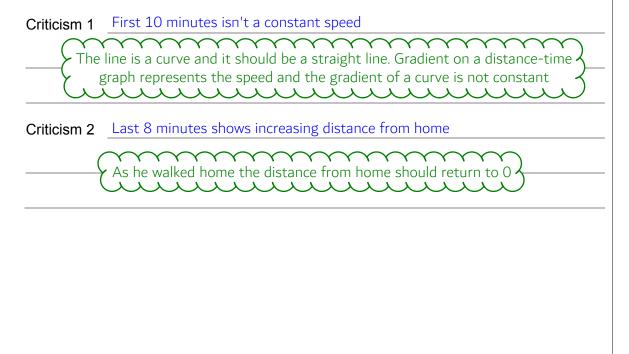
He walked home at a constant speed in 8 minutes.

Anil drew this distance-time graph to represent his journey.



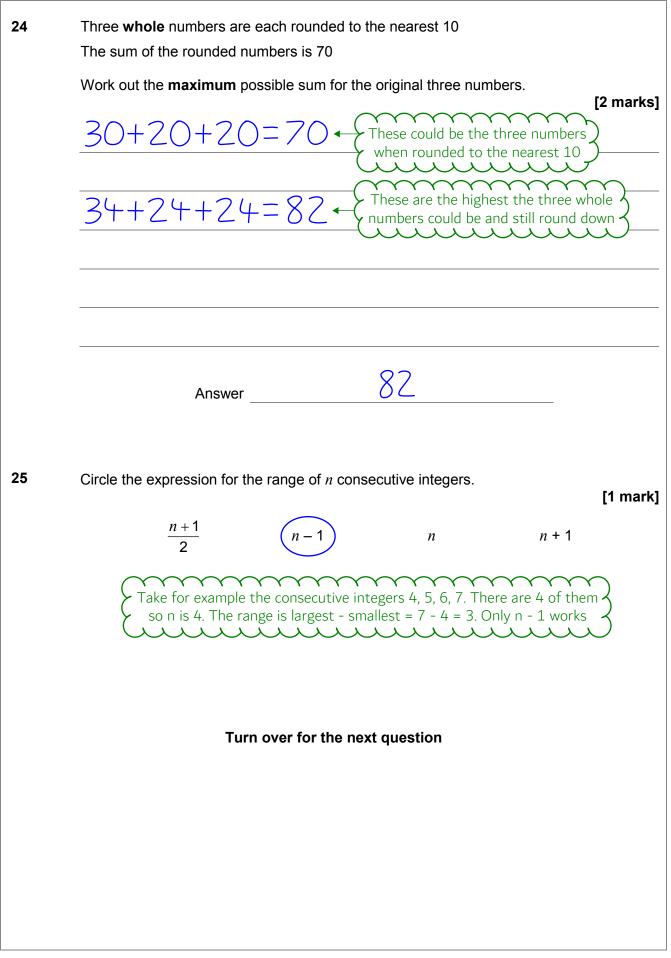
Make two criticisms of his graph.

[2 marks]



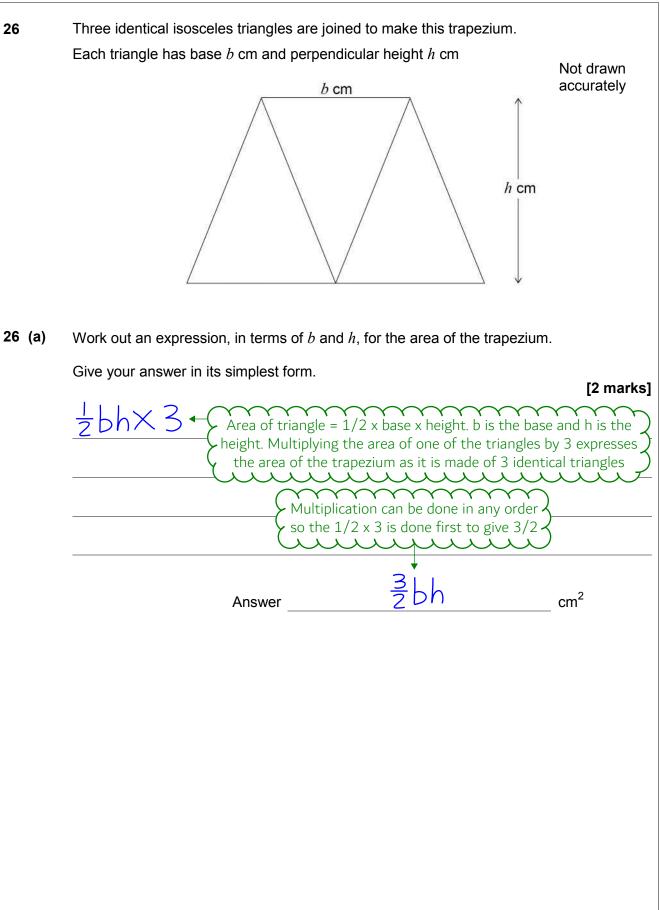






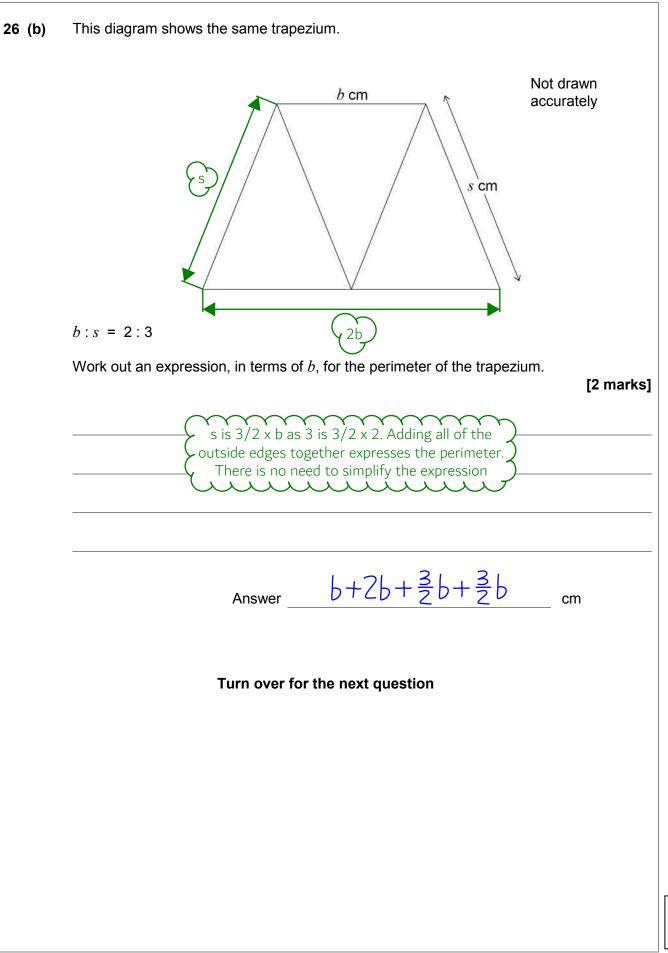






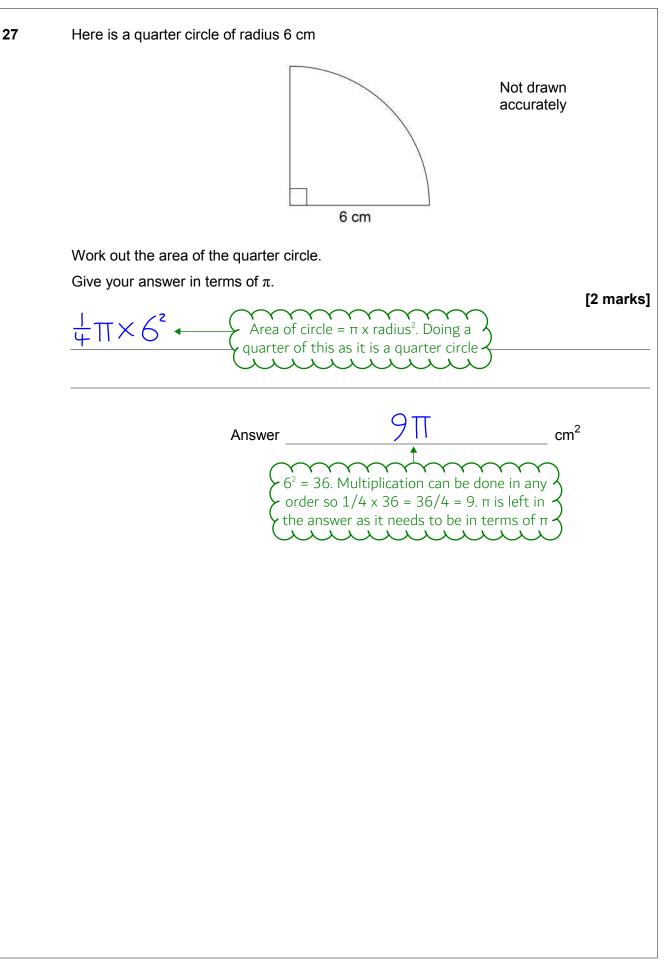






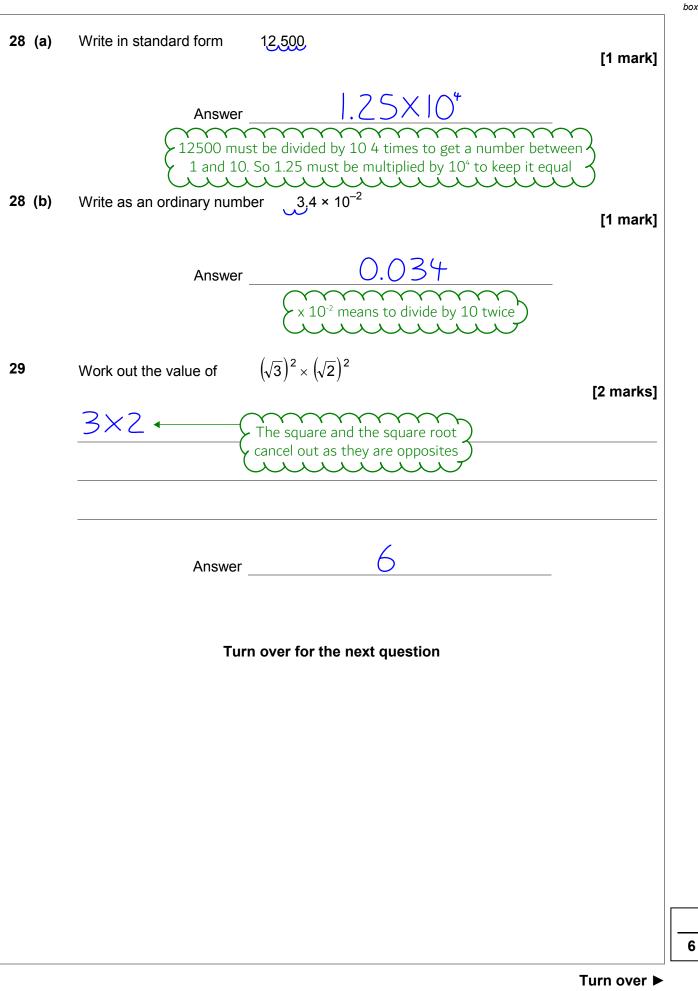








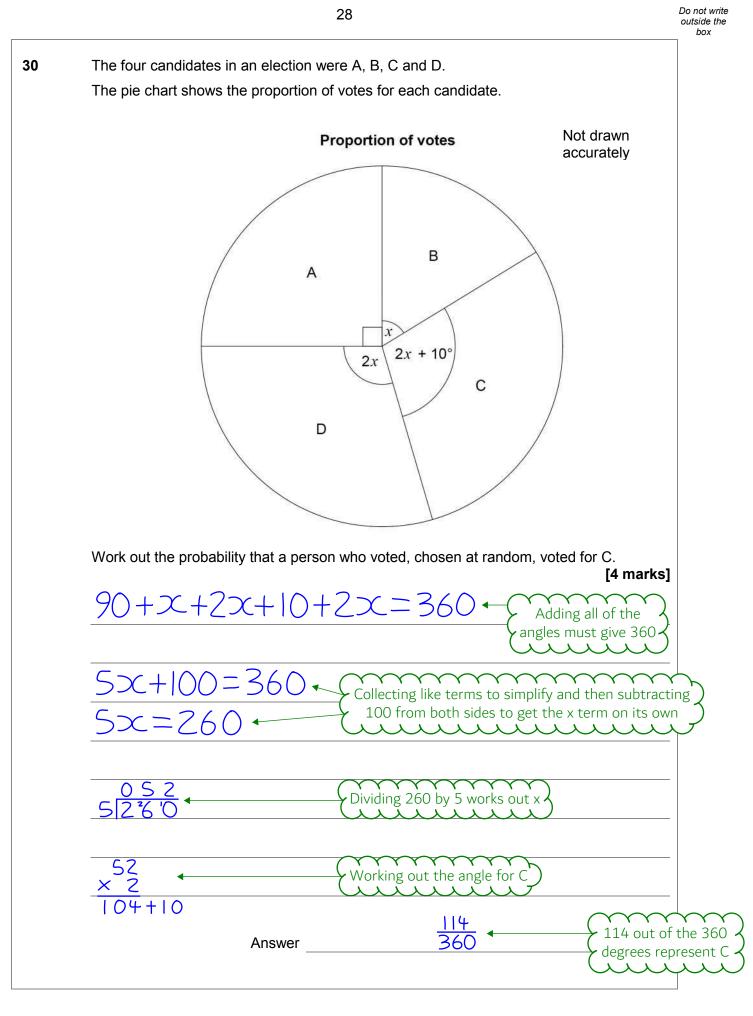




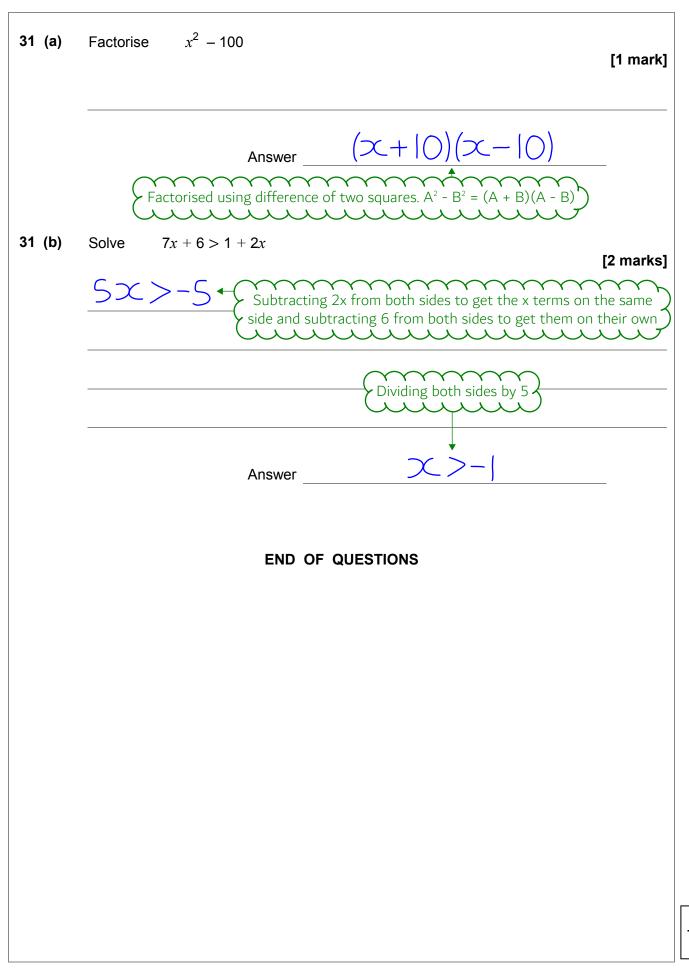


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