Please check the examination details below before entering your candidate information								
Candidate surname			Other names					
	Cen	tre Number	Candidate Number					
Pearson Edexcel								
Level 1/Level 2 GCSE (9–1)								
Time 1 hour 30 minutes		Paper reference	1MA1/2F					
Mathematics								
PAPER 2 (Calculator)								
Foundation Tier								
)					
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator, Formulae Sheet (enclosed). Tracing paper may be used.								

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.
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- Calculators may be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is 80
- 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 if you have time at the end.
- Good luck with your examination.











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

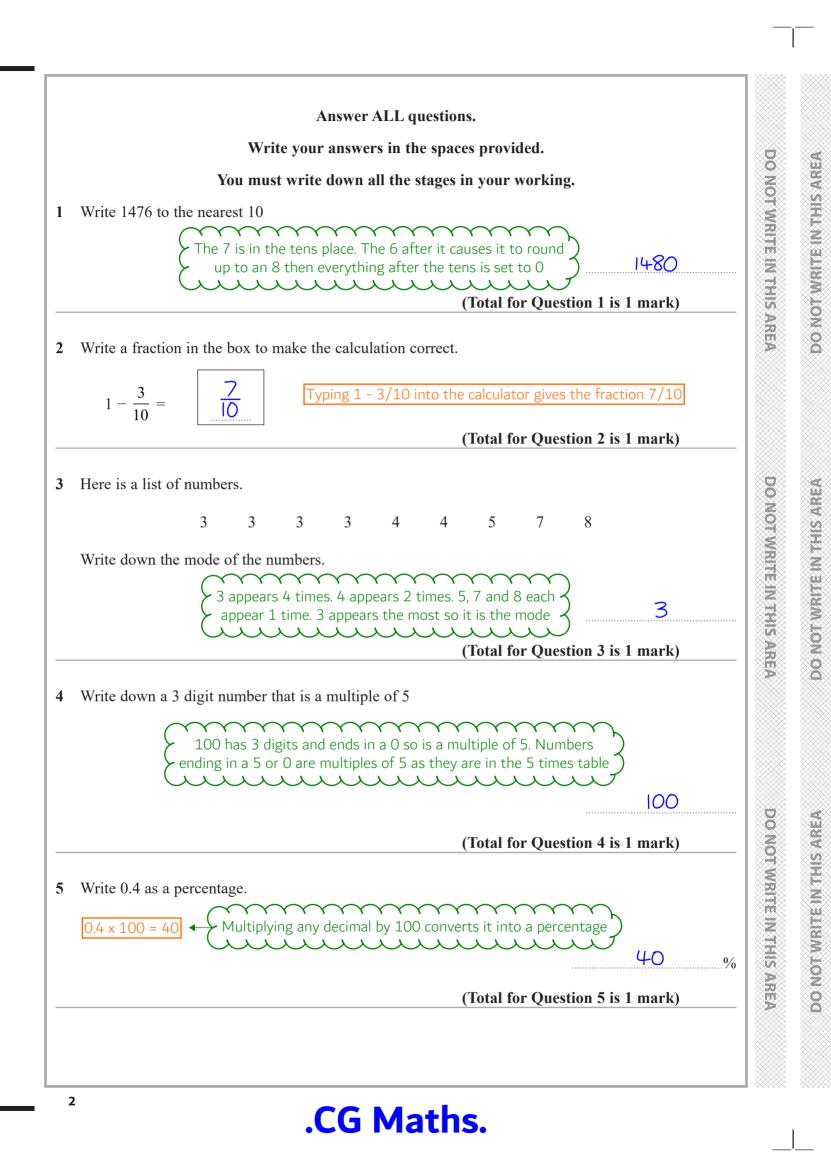
Any writing in blue indicates what must be written in order to answer the questions and get the marks. The worked solutions have been designed to show the smallest amount of work which needs to be done to answer the question.

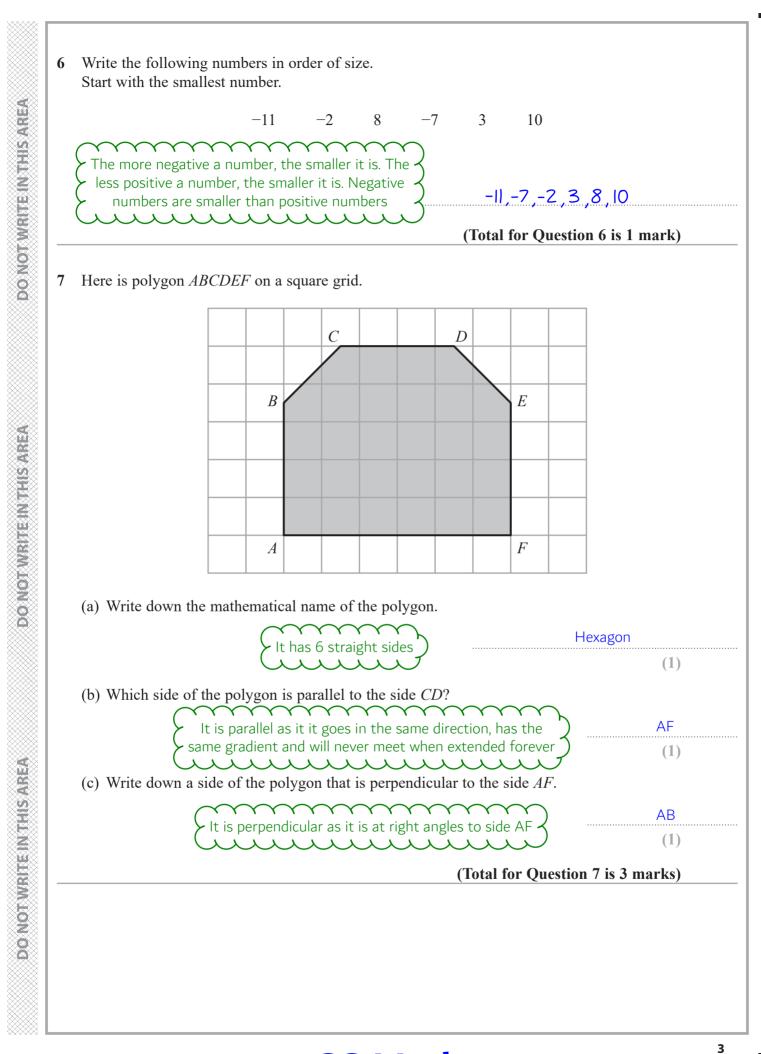
Anything written in green in a cloud doesn't have to be written in the exam.

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



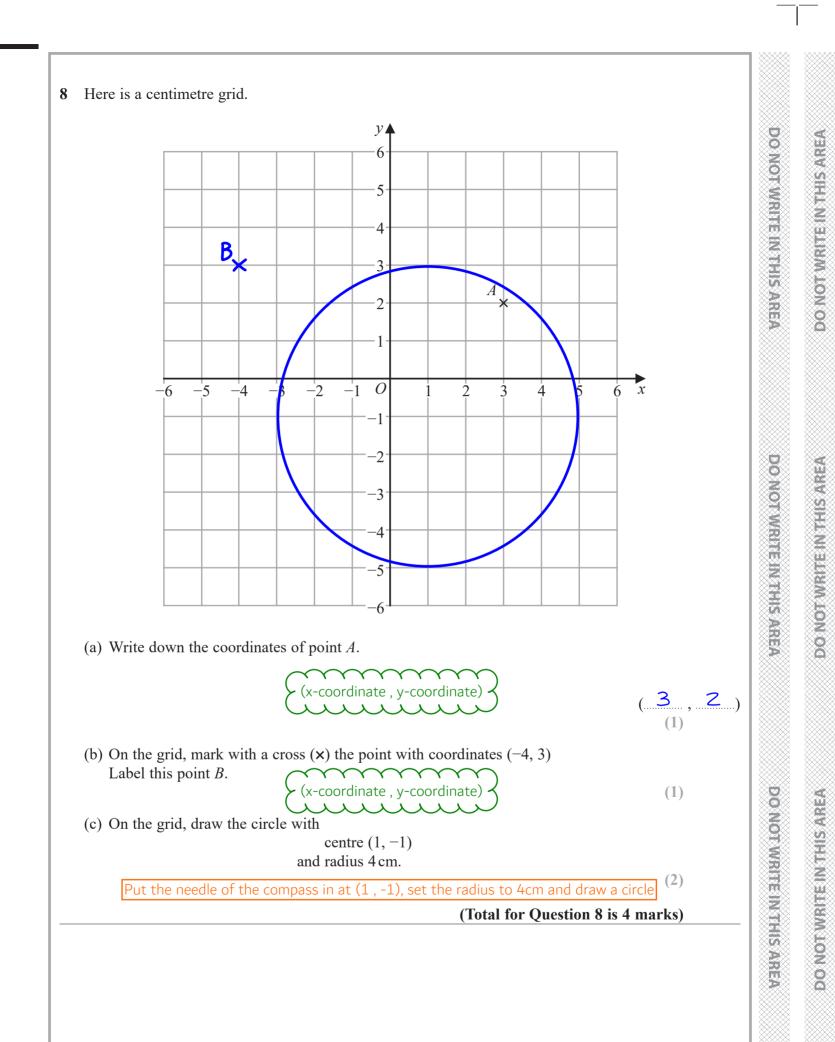




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9 The graph shows information about the number of houses sold by an estate agent in each of six months last year.

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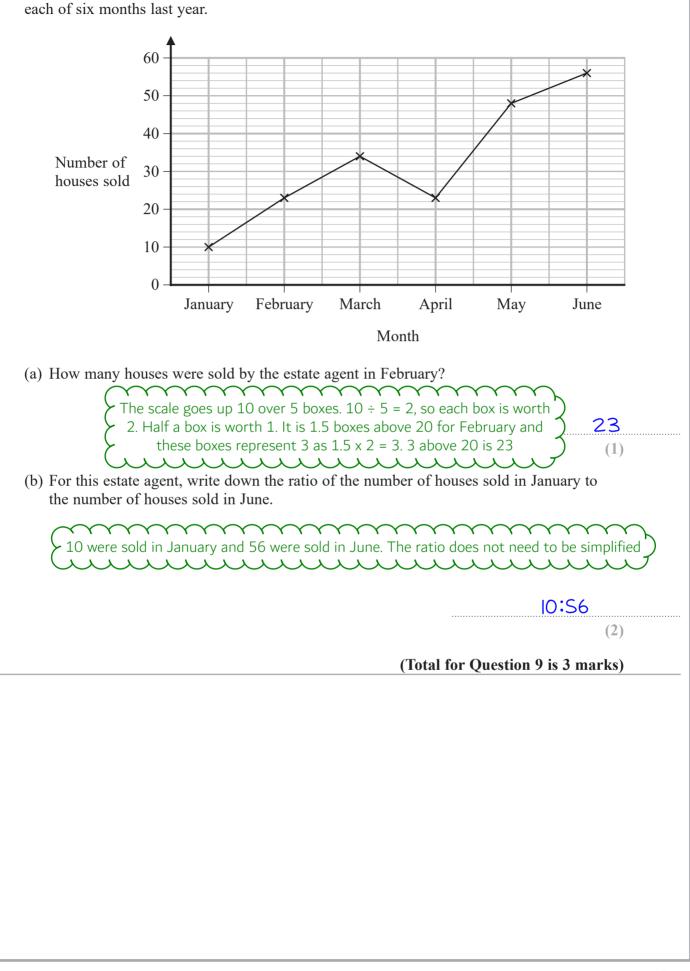
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10 Sonia wants to book a holiday. The holiday will cost £1428

> Sonia will pay a deposit of ± 150 She will then pay the rest of the cost in 6 equal monthly payments.

How much is each monthly payment?

Subtracting the deposit from the total cost 1428-150 4 leaves the cost of the 6 equal monthly payments Dividing the cost of the 6 equal monthly payments 1278÷6 < by 6 works out how much each monthly payment is

£ 213

(Total for Question 10 is 3 marks)

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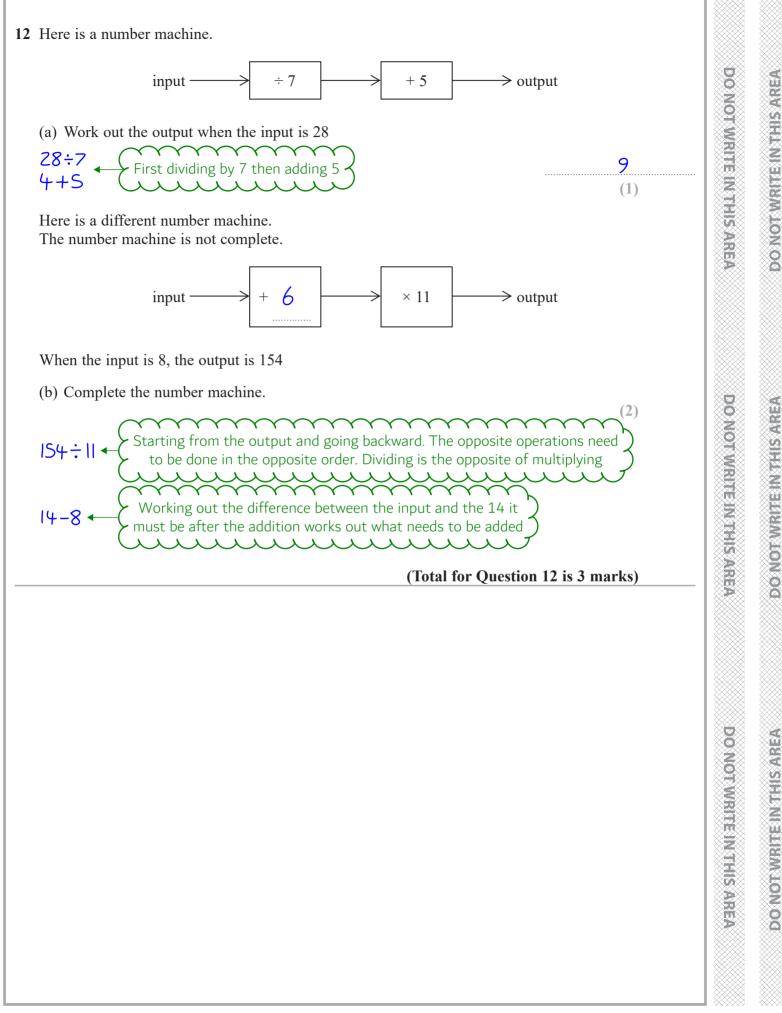


	11 The line was a triangle ADC
DO NOT WRITE IN THIS AREA	11 The diagram shows a triangle <i>ABC</i> . A 116° 125°
DO NOT W	$B \xrightarrow{25^{\circ}} E$ $C \xrightarrow{x} D$ ACD and BCE are straight lines.
DO NOT WRITE IN THIS AREA	Work out the size of the angle marked <i>x</i> . Give a reason for each stage of your working. 180 - 25 - 116 Angle ACB = 39° as angles in a triangle add up to 180° Angle x = 39° as vertically opposite angles are equal
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	(Total for Question 11 is 3 marks)

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- 13 Sophie works in a bed shop.
 - During the last three months she sold 198 beds.
 - 59 beds were sold without a mattress.
 - 45 beds were double beds.
 - 17 of the single beds were sold without a mattress.
 - 67 of the 83 king size beds were sold with a mattress.

Use this information to complete the two-way table.

	Single	Double	King size	Total
With mattress	53	19	67	139
Without mattress	17	26	16	59
Total	70	45	83	198

Once the initial information is filled in, the missing number in each row or column can be found by considering that the row or column has to add up to the total at the end of it 7 7 7 メンス

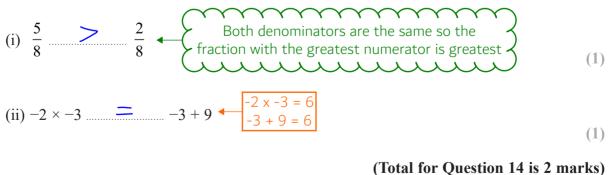
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198 - 59 = 139
  83 - 67 = 16
198 - 45 - 83 = 70
  70 - 17 = 53
139 - 53 - 67 = 19
  45 - 19 = 26
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(Total for Question 13 is 3 marks)

14 The box below contains three mathematical symbols.



From the box, choose a symbol to make each of the following statements correct.



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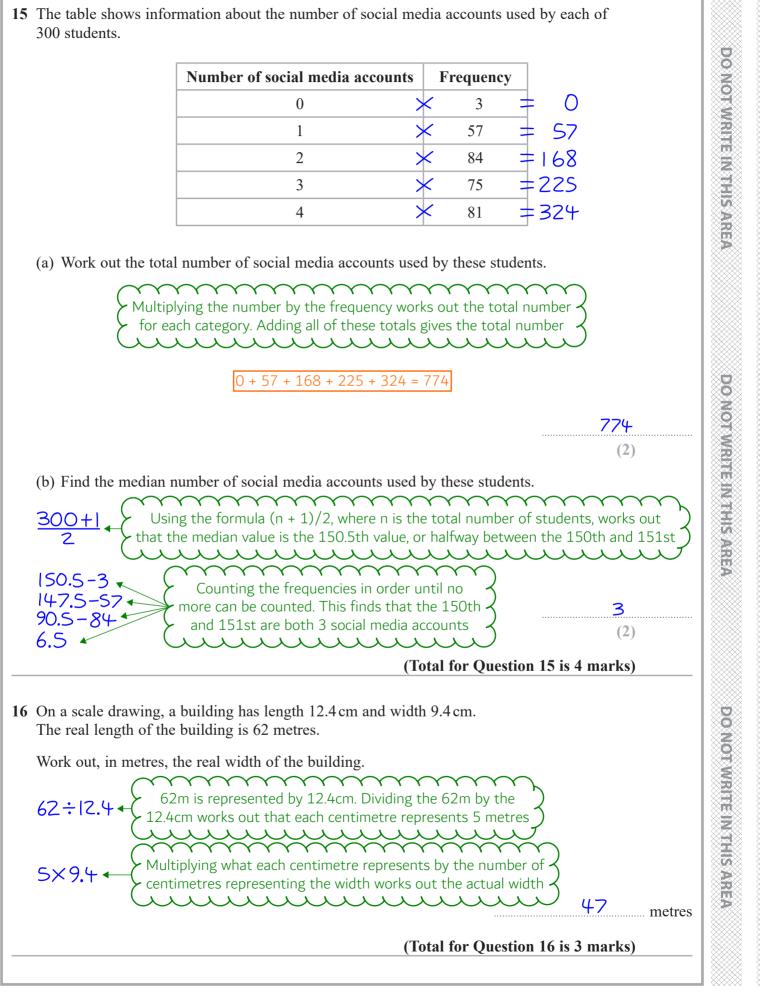
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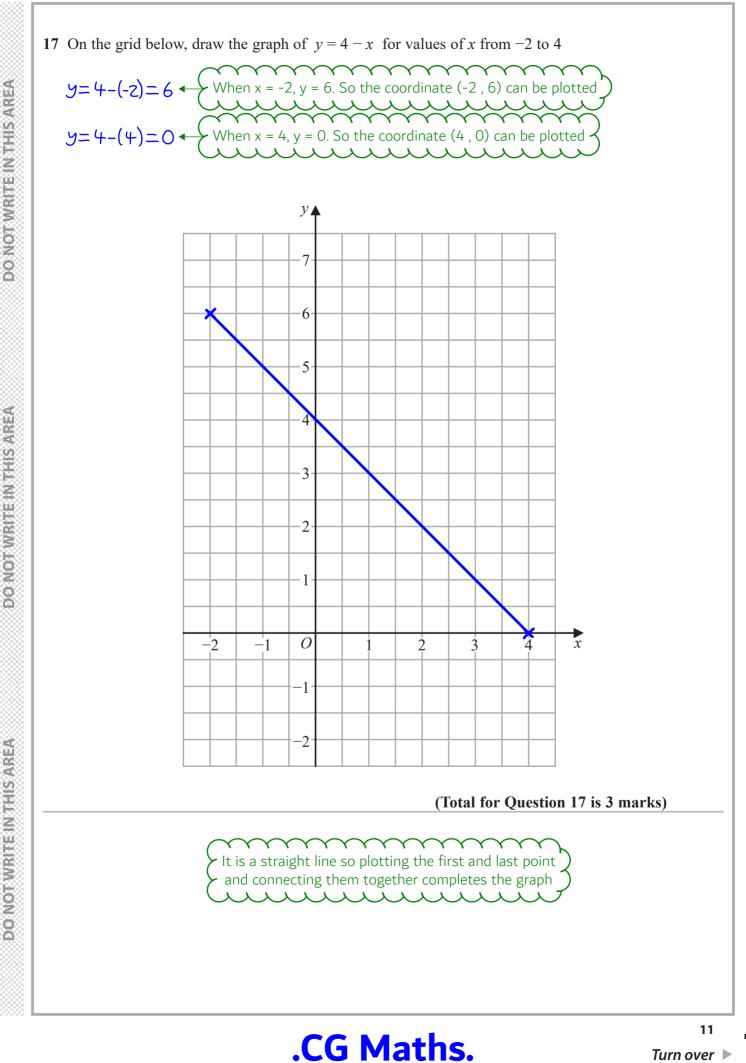
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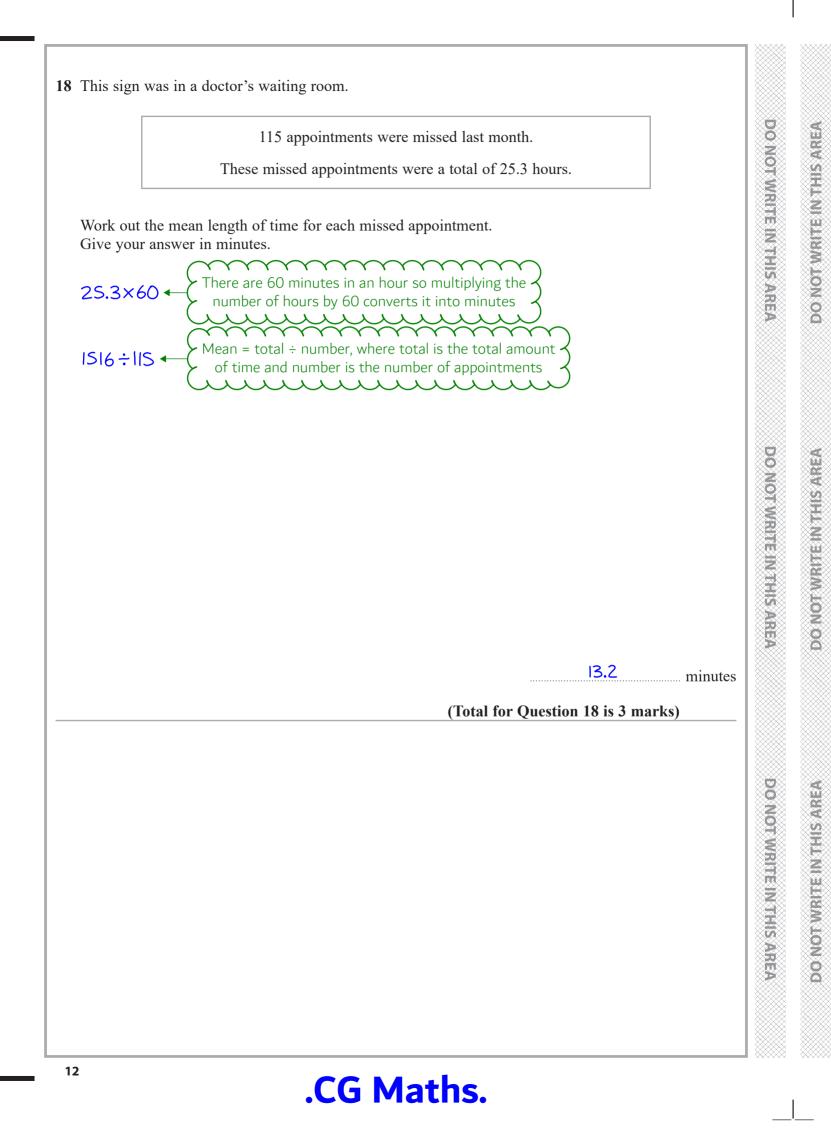
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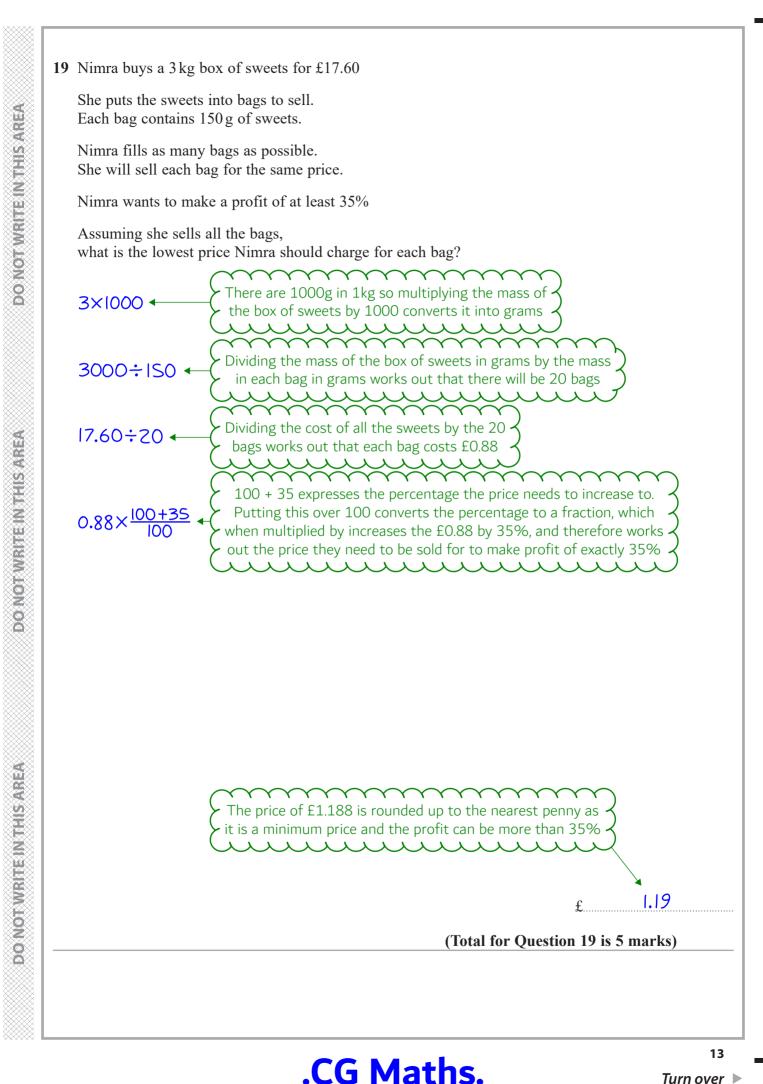
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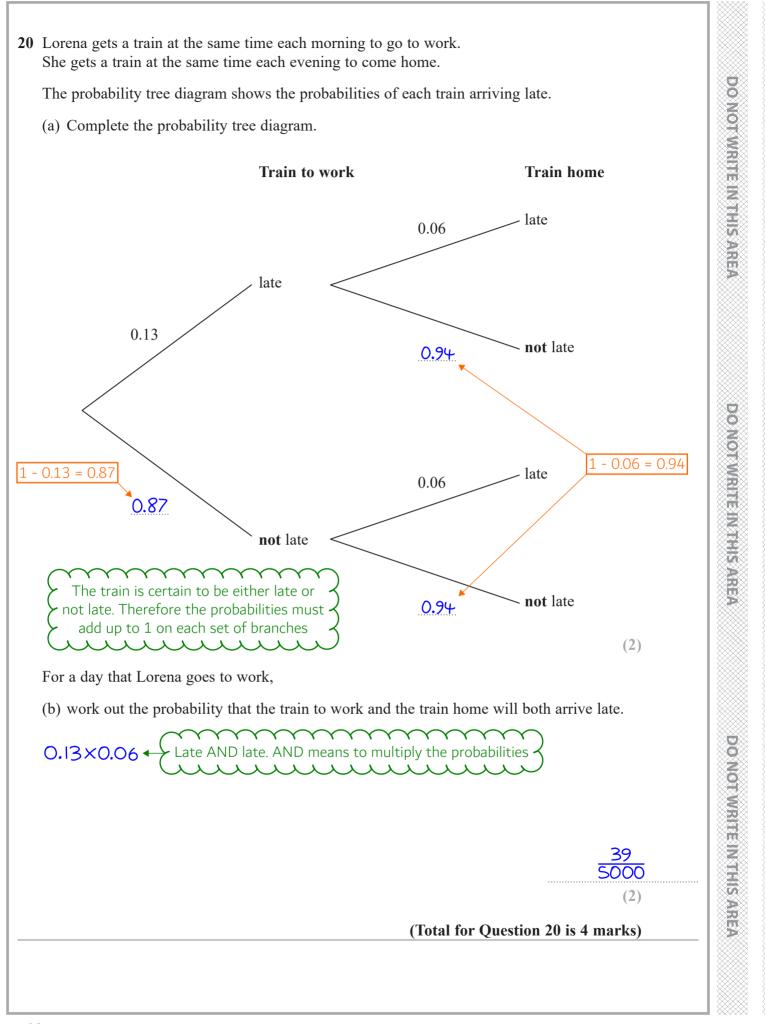


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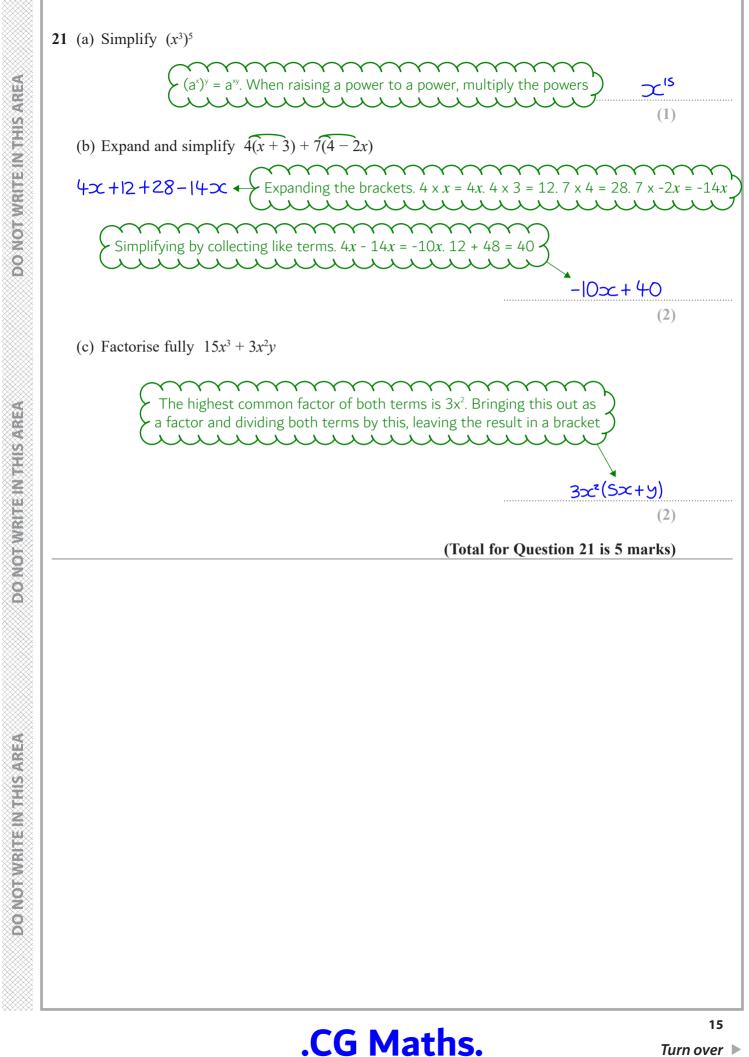
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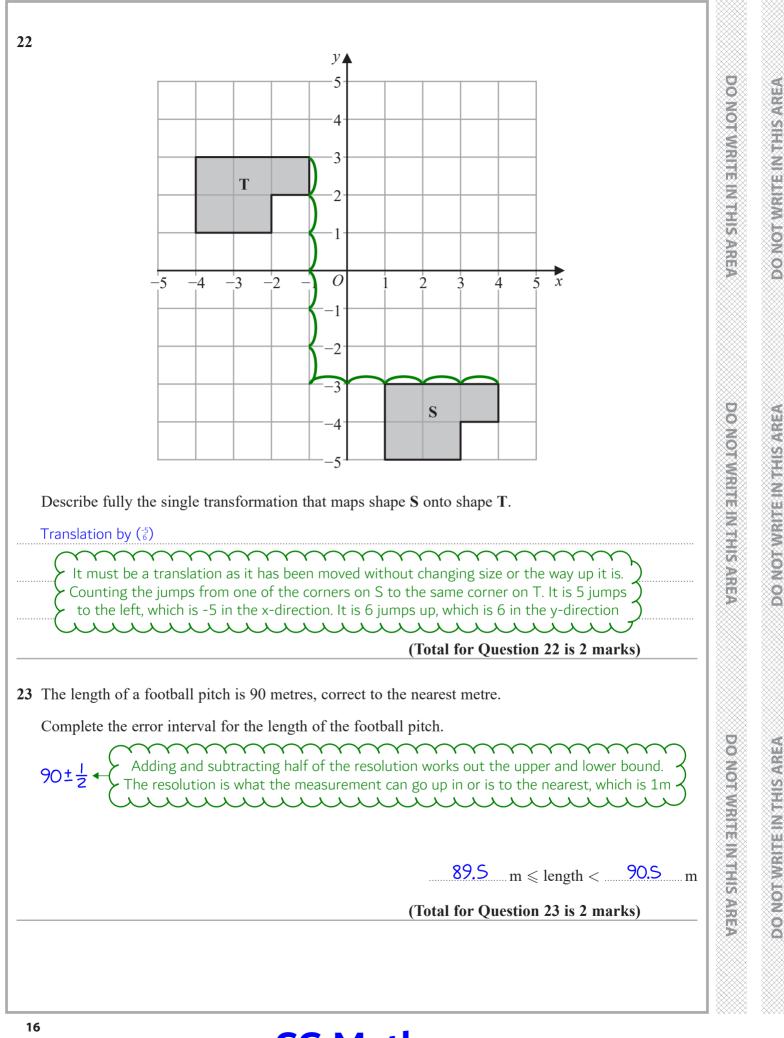
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24 Festival A will be in a rectangular field with an area of 80000 m²The greatest number of people allowed to attend Festival A is 425

Festival B will be in a rectangular field 700 m by 2000 m. The greatest number of people allowed to attend Festival B is 6750

The area per person allowed for Festival B is greater than the area per person allowed for Festival A.

(a) How much greater?Give your answer correct to the nearest whole number.

This is the area per person for Festival A. Area per $80000 \div 425 = \frac{3200}{17}$ person means to divide the area by the number of people 2000×700 + This is the area for Festival B. Area of rectangle = length x width $1400000 \div 6750 = \frac{5600}{27}$ This is the area per person for Festival B. Area per person means to divide the area by the number of people JJJJJ \mathcal{I} Subtracting the area per person of Festival A from the $\frac{5600}{27} - \frac{3200}{17}$ area per person for Festival B works out how much greater the area per person for Festival B is than Festival A * * * * * * * * 19.17... is rounded to the nearest whole metre 19 m^2 (4) Callum says, " $300 \,\mathrm{cm}^2$ is the same as $3 \,\mathrm{m}^2$ because there are $100 \,\mathrm{cm}$ in $1 \,\mathrm{m}$ so you divide by 100" Callum's method is wrong. (b) Explain why. Should divide by 100² There are 100cm in 1m, however the unit is squared so the amount needed to divide by to convert is also squared \mathcal{I} $\boldsymbol{\lambda}$ ノ トレ (1) (Total for Question 24 is 5 marks)



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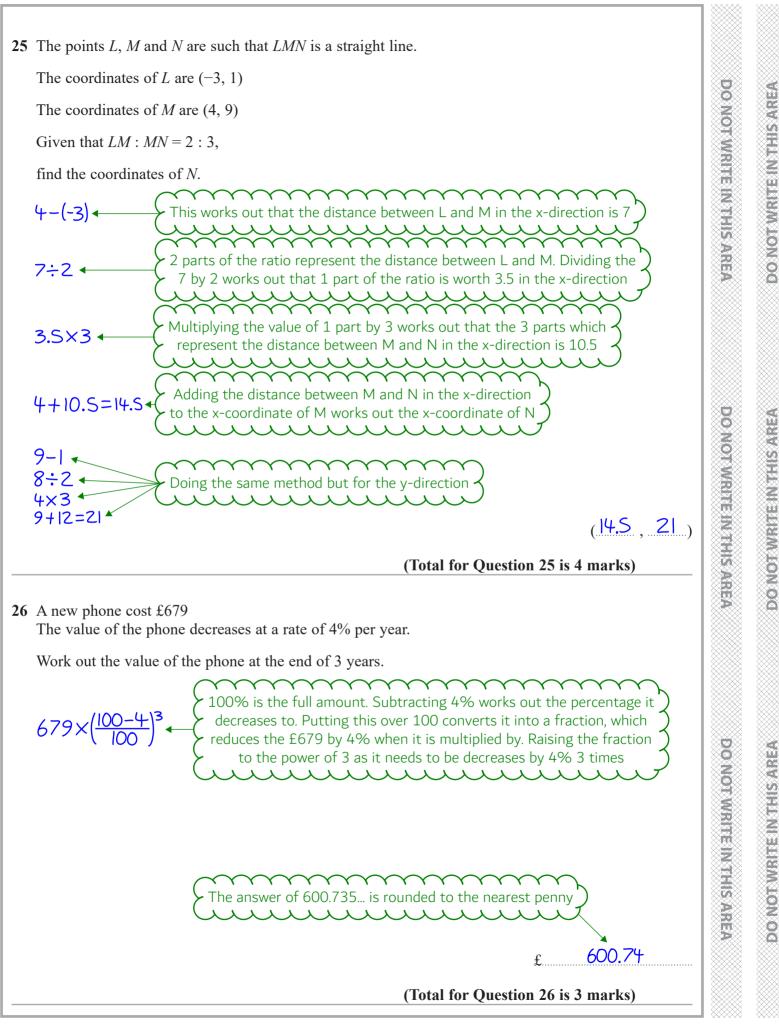
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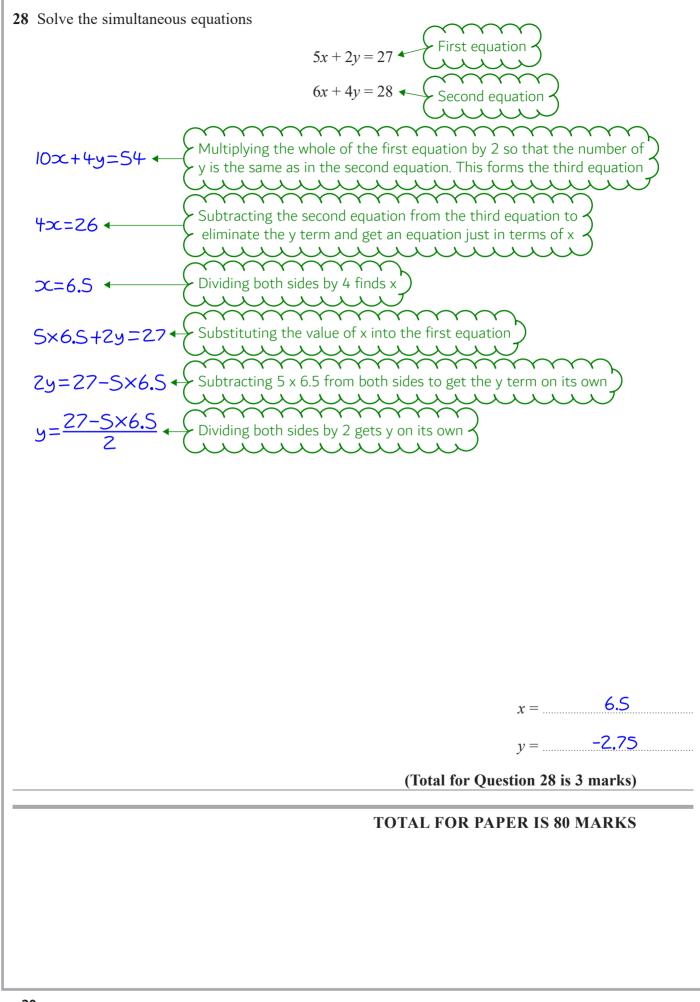
.CG Maths.

27 In Spain, Sam pays 27 euros for 18 litres of petrol. In Wales, Leo pays £40.80 for 8 gallons of the same type of petrol. AREA $1 euro = \pm 0.85$ 4.5 litres = 1 gallon **INTHIS** Sam thinks that petrol is cheaper in Spain than in Wales. RITE Is Sam correct? You must show how you get your answer. 3 NOT 27×0.85=22.95 + Each euro is £0.85 so multiplying the 27 euros by 0.85 converts it to £22.95 ٦. 00 Every 4.5 litres is 1 gallon so dividing the 18 litres by 4.5 works out 18÷4.5=4 + how many lots of 4.5 litres it is and therefore how many gallons it is 8 gallons is 2 lots of 4 gallons so multiplying the price 22.95×2=45.90 of 4 gallons by 2 works out the price of 8 gallons The petrol in Spain is not cheaper than in Wales as it costs THIS ARE No 🔸 £45.90 for 8 gallons and Wales is less than this for 8 gallons * * * * * * * * * NOT WRITE IN 00 AREA THIS WRITE IN DO NOT (Total for Question 27 is 4 marks) 19

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