

5536/17

Edexcel GCSE

Mathematics B – 1388

Paper 17 (Calculator)

Examiner's use only Team Leader's use only

Intermediate Tier

Wednesday 15 June 2005 - Morning

Time: 1 hour 15 minutes

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used. Items included with question papers

Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions in the spaces provided in this question paper.

You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

There are 17 questions in this question paper. The total mark for this paper is 62. The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). 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.

Advice to Candidates

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

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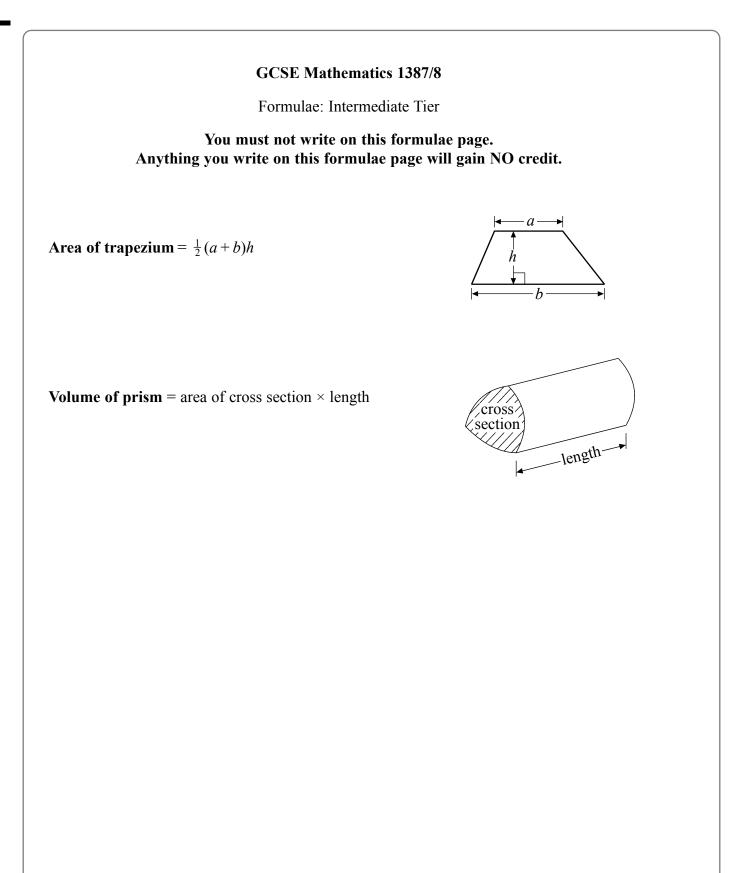
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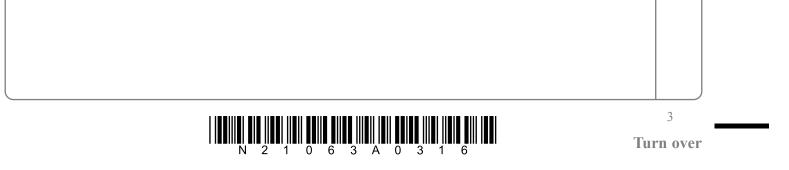






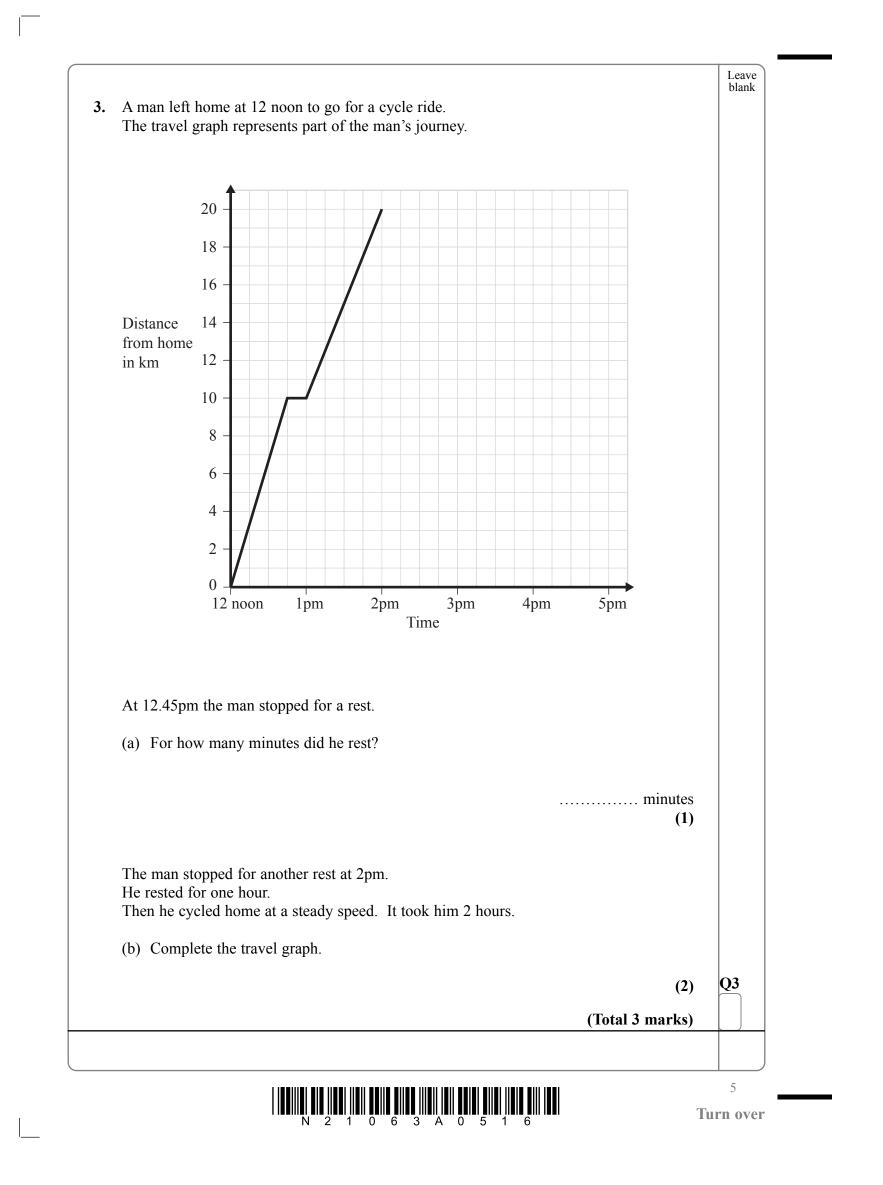
| | Leave |
|---|-------------|
| Answer ALL SEVENTEEN questions. | |
| Write your answers in the spaces provided. | |
| You must write down all stages in your working. | |
| Margaret goes on holiday to Switzerland. The exchange rate is $\pounds 1 = 2.10$ francs. | |
| She changes £450 into francs. | |
| (a) How many francs should she get? | |
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| | |
| | |
| | |
| | francs (2) |
| In Switzerland, Margaret buys a railway ticket. The cost of the railway ticket is 63 francs. | |
| (b) Work out the cost of the ticket in pounds. | |
| (o) work out the cost of the denot in pounds. | |
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| | |
| £ | (2) Q1 |
| | |
| (lota | ul 4 marks) |

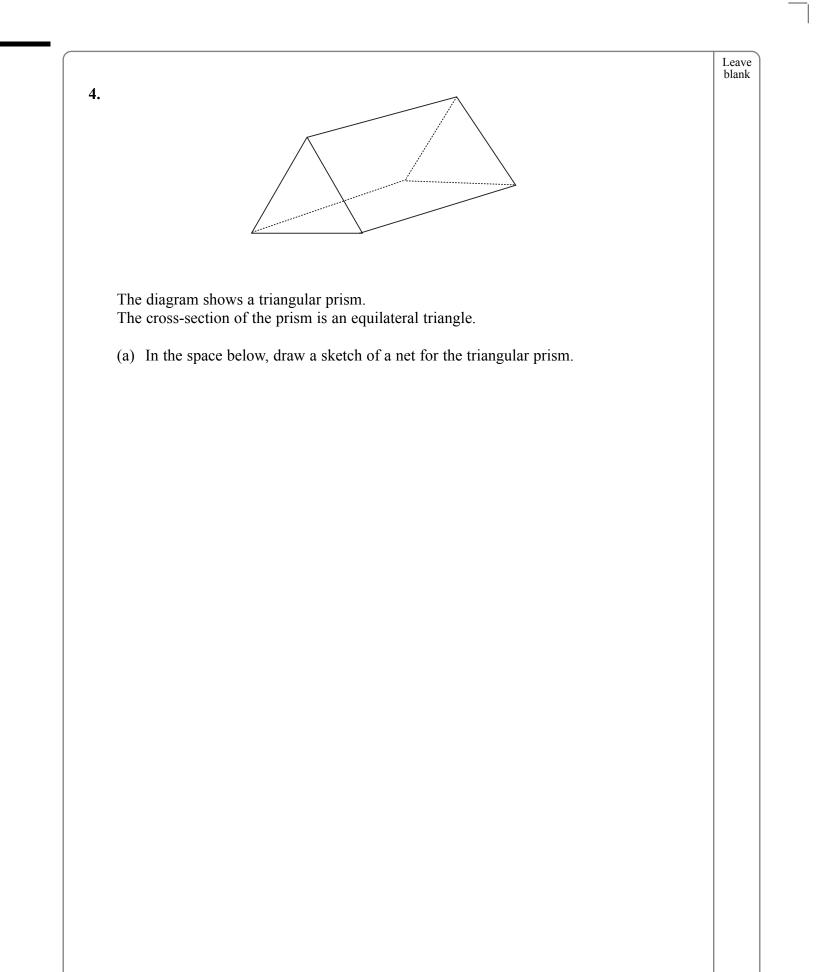
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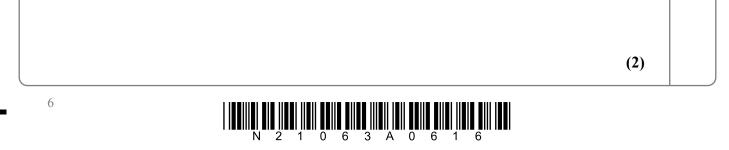


| 2. | The table shows s | some expression | 15. | | | b |
|----|--|--|--|------------------|-----------------|---|
| | 2(y+y) | 2y + y | $2y \times 2y$ | 2y + 2y | 2 + 2y | |
| | Two of the expres Tick (✓) the box | ssions always h es underneath th | ave the same valute the same v | ie as 4y. is. | (Total 2 marks) | Q |
| | | | | | (Total 2 marks) | |
| | | | | | | |
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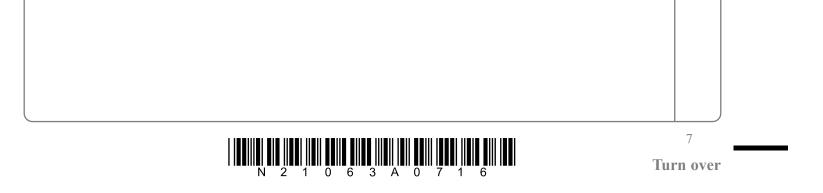


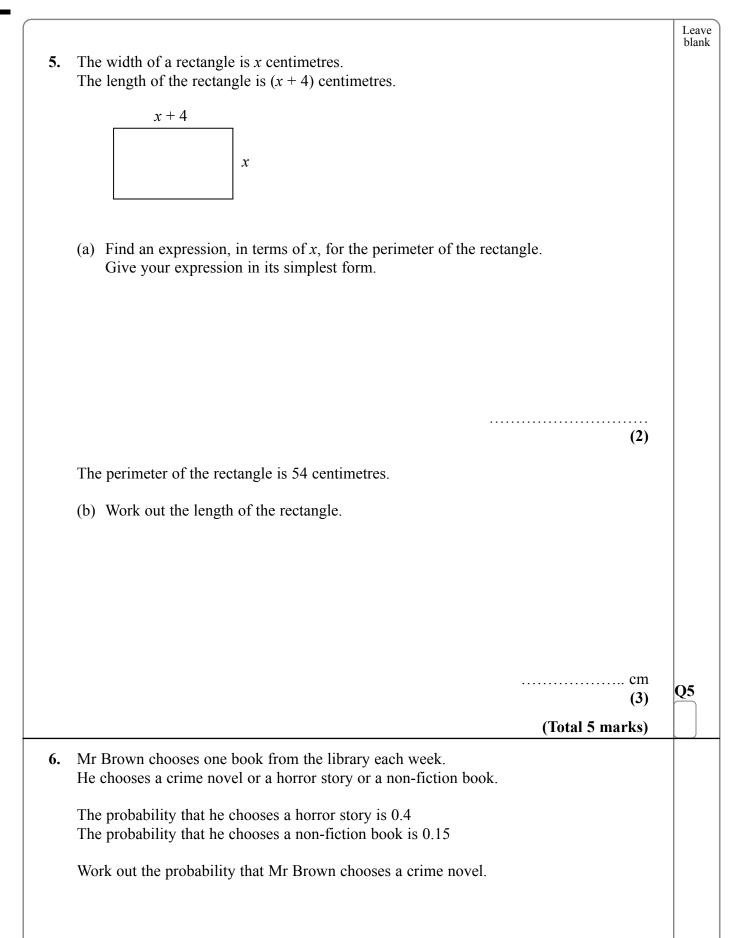




| (b) In the space below, use ruler and compasses to construct an equilateral triangle with sides of length 6 centimetres. You must show all construction lines. | Leave blank |
|---|----------------|
| One side of the triangle has already been drawn for you. | |
| | |
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| | |
| (2) | Q4 |
| (Total 4 marks) | |
| | |
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| 7. | Change 7 m ² to cm ² . | | Leave blank |
|----|--|------------------------------------|----------------|
| 8. | Michael buys 3 files. The total cost of these 3 files is £5.40 Work out the total cost of 7 of these files. | cm ² (Total 2 marks) | Q7 |
| | | £ (Total 3 marks) | Q8 |

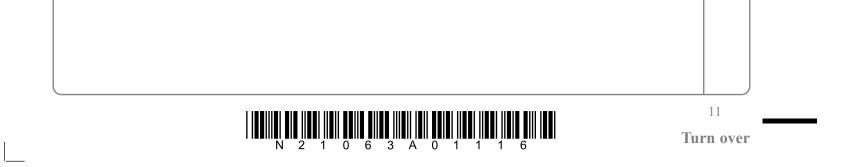
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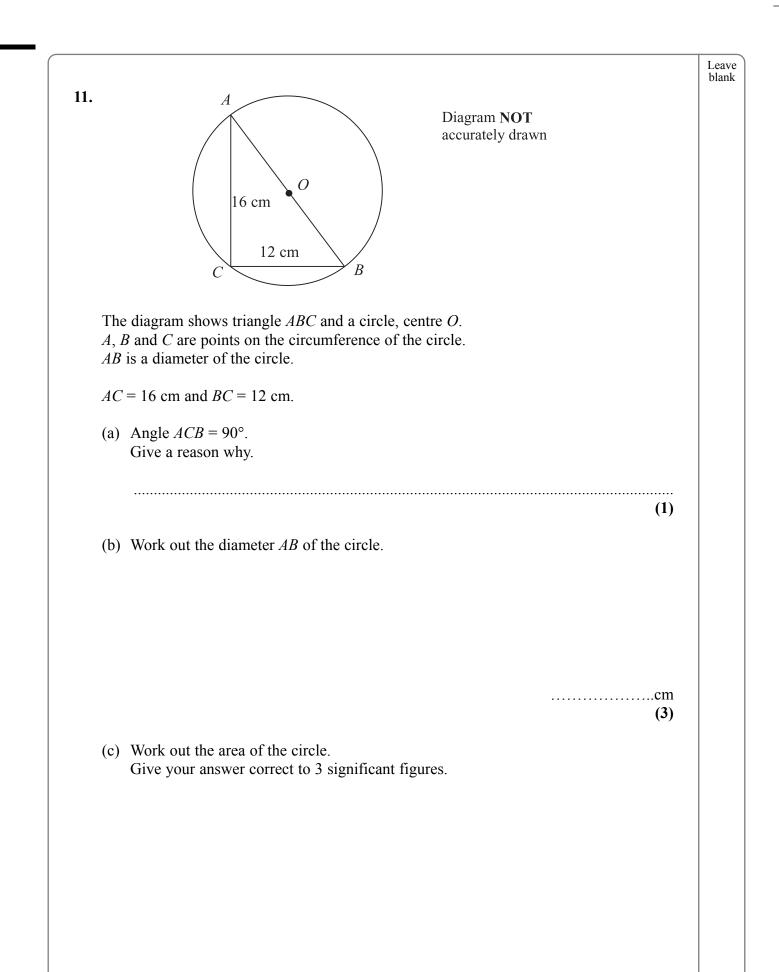


| | | | Leave |
|----|--|-----------------|-------|
| 9. | Three women earned a total of £36 They shared the £36 in the ratio 7:3:2 | | |
| | Donna received the largest amount. | | |
| | (a) Work out the amount Donna received. | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | £(3) | |
| | A year ago, Donna weighed 51.5 kg. Donna now weighs $8\frac{1}{2}$ % less. | | |
| | (b) Work out how much Donna now weighs. Give your answer to an appropriate degree of accuracy. | | |
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| | | | |
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| | | | |
| | | kg (4) | Q9 |
| | | (Total 7 marks) | |
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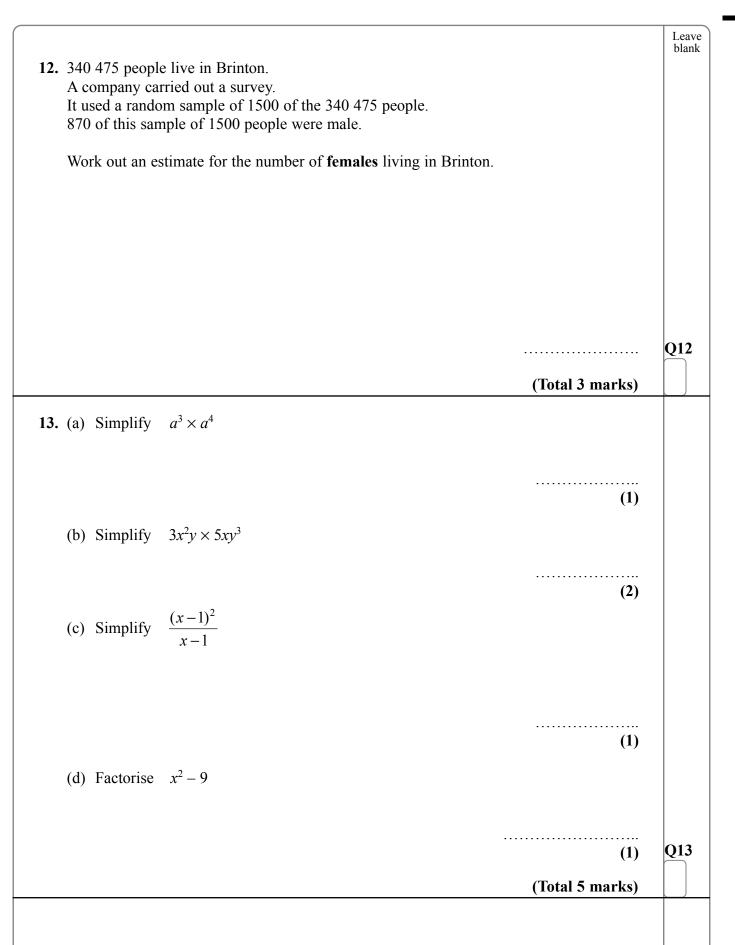


| ast week. | | |
|--|-----------|---|
| Number of hours (h) | Frequency | |
| $0 \le h \le 2$ | 10 | |
| $2 \le h \le 4$ | 15 | |
| $4 \le h \le 6$ | 30 | |
| $6 < h \leqslant 8$ | 35 | |
| $8 < h \leqslant 10$ | 25 | |
| $10 \le h \le 12$ | 5 | |
| Work out an estimate for Give your answer correct | | rs that the children used a computer. |
| | | |
| | | |
| | | hours |
| | | hours |
| | | rs that the children used a computer. hours (Total 4 marks) |
| | | hours |

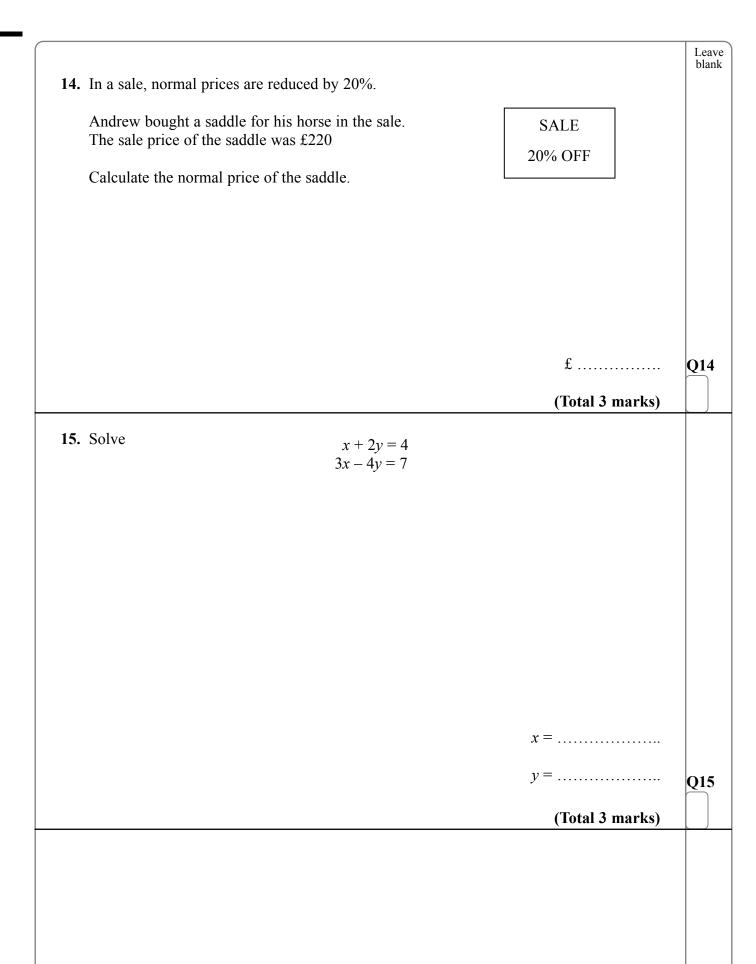




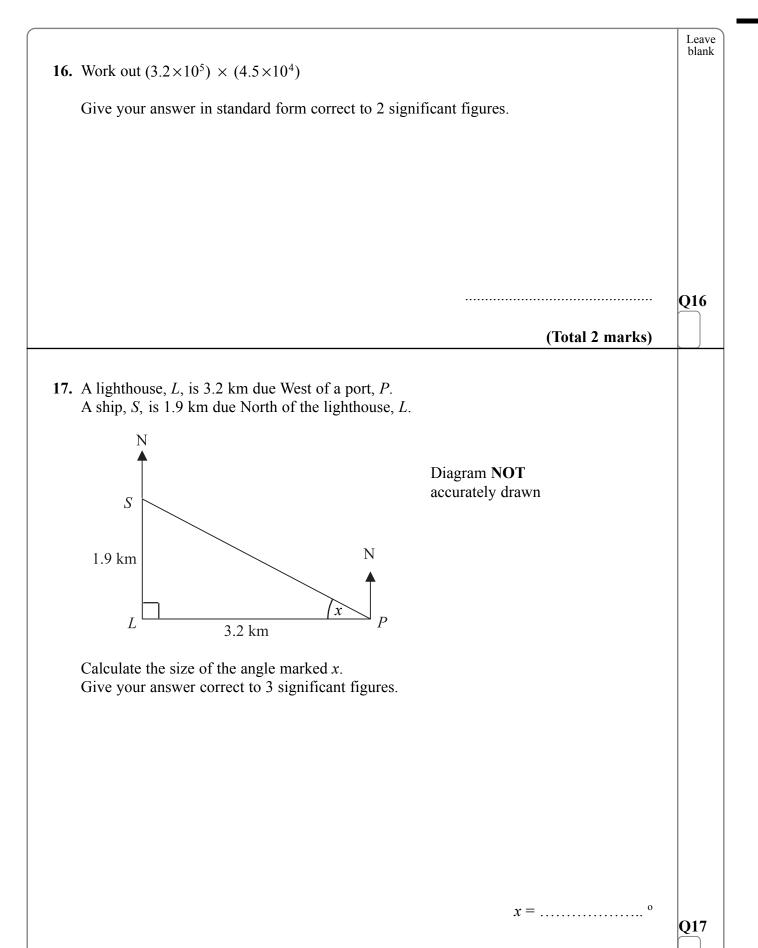


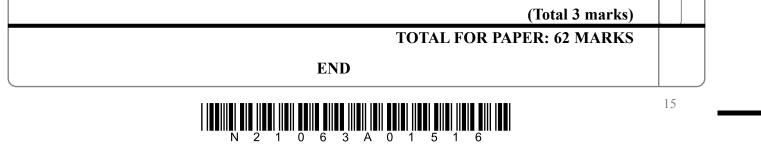












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