

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

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GCSE MATHEMATICS

Grades 1-2

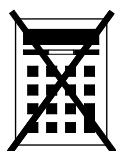
Non-Calculator Test 1

Time allowed: 1 hour

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 47.
- 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.

For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–7	
8–9	
10–11	
12–13	
TOTAL	

Answer **all** questions in the spaces provided

- 1** Circle the value of 5^3 **[1 mark]**

8

15

25

125

- 2** Last week, Erik worked for 10 hours.
He paid no tax and received £90
- This week, Erik works for 15 hours.
He assumes he will be paid at the same rate and pay no tax.
How much does he expect to receive this week?

[3 marks]

Answer £ _____



3

Which statement is correct?

Tick **one** box.☐

$17 + 3 < 29 - 10$

☐

$17 + 3 = 29 - 10$

☐

$17 + 3 > 29 - 10$

Show working to support your answer.

[2 marks]

4

At a cinema, films are shown on Screen 1 and Screen 2

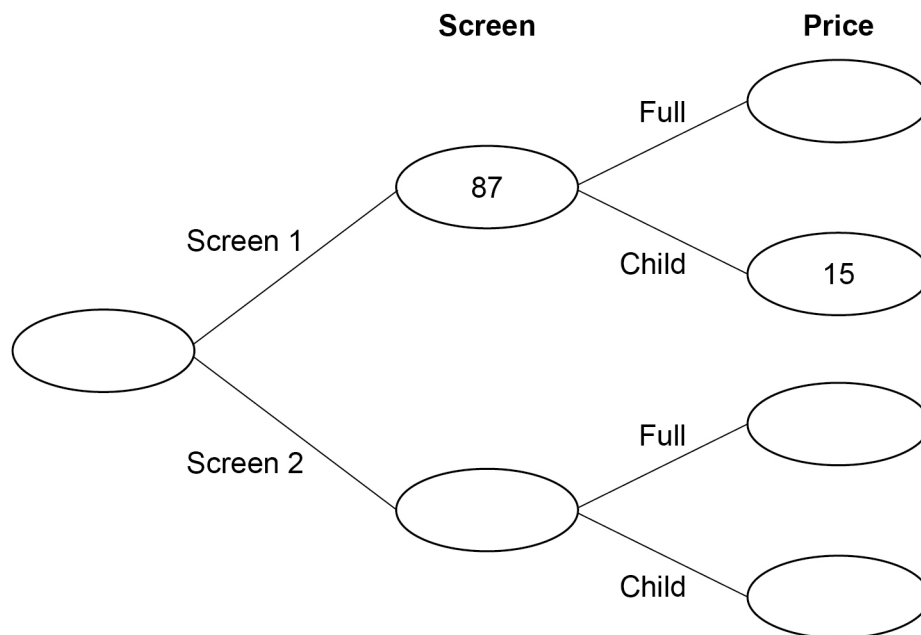
Customers pay full price or child price.

There are three times as many customers in Screen 2 as Screen 1

68 customers paid child price.

Complete the frequency tree.

[5 marks]



- 5** By rounding each number to the nearest 10, estimate the value of 31×18 **[3 marks]**

Answer _____

- 6** Write 18 out of 30 as a fraction in its simplest form. **[2 marks]**

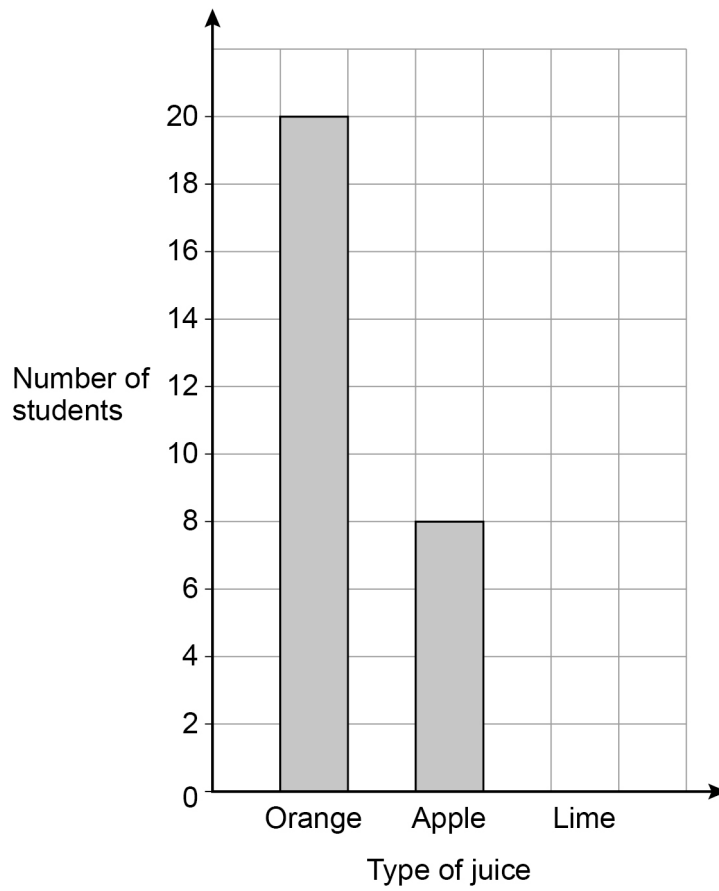
Answer _____



7

Students choose juice with their school meal in the ratio

orange : apple : lime = 5 : 2 : 3



Complete the bar chart.

[3 marks]



- 8 A number is picked at random from the first four **prime** numbers.
A number is picked at random from the first four **square** numbers.
The two numbers are added to get a score.

Complete the table.

[4 marks]

		Square numbers			
Prime numbers	+	1	4	9	
	2				
	3			12	
	7				

- 9 The term-to-term rule for a sequence is

multiply by 2

The 3rd term of the sequence is 46

Work out the 1st term.

Give your answer as a decimal.

[3 marks]

Answer _____



10

Work out

58×73

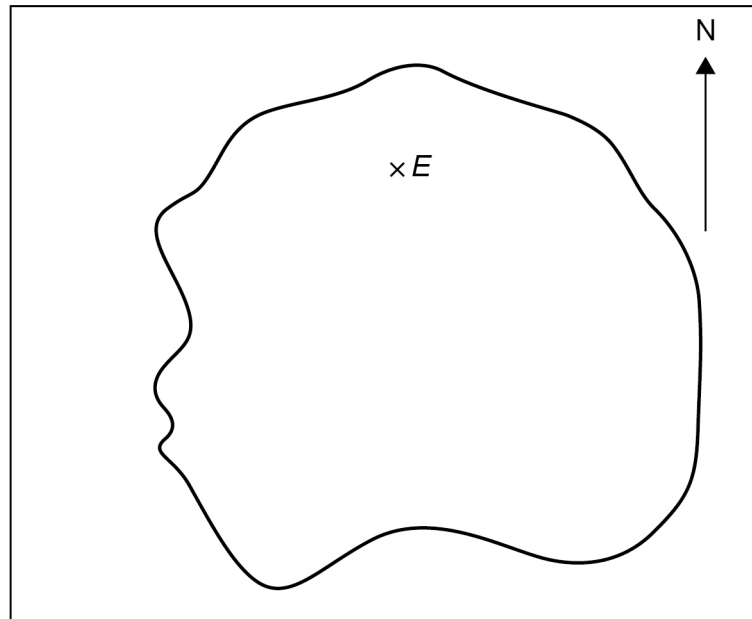
[3 marks]

Answer _____



- 11 This map shows an airport, E , on an island.

Scale: 1 cm represents 100 km



A plane flies due South from the airport.

How far does it fly until it reaches the sea?

[3 marks]

Answer _____ km



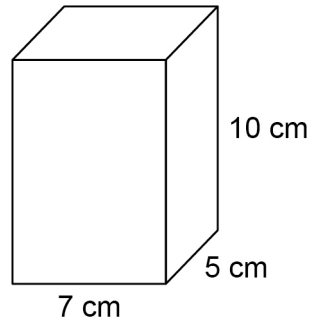
300 passengers go on a coach trip.
Each coach takes 50 passengers.
Each passenger pays £25

	Cost for each coach
Pay for driver	£90
Fuel	70p per mile

Work out the **total** profit the company makes from this trip.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- 13 Here is a cuboid.



Work out the volume.

[2 marks]

Answer _____ cm^3



- 14** Companies A and B sell insurance for mobile phones.
The table shows the **monthly** costs for two types of cover, Damage and Loss.

Company	Damage	Loss
A	£8.65	£12.20
B	£7.25	£14.10

- 14 (a)** Work out the difference in monthly cost for the two types of cover with **Company A**.

[2 marks]

Answer £ _____

- 14 (b)** Ben wants Damage cover with **Company B**.

How much in total will he pay for one **year**?

[3 marks]

Answer £ _____



15 Simplify fully 56 : 24**[2 marks]**

Answer _____ : _____

END OF QUESTIONS

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