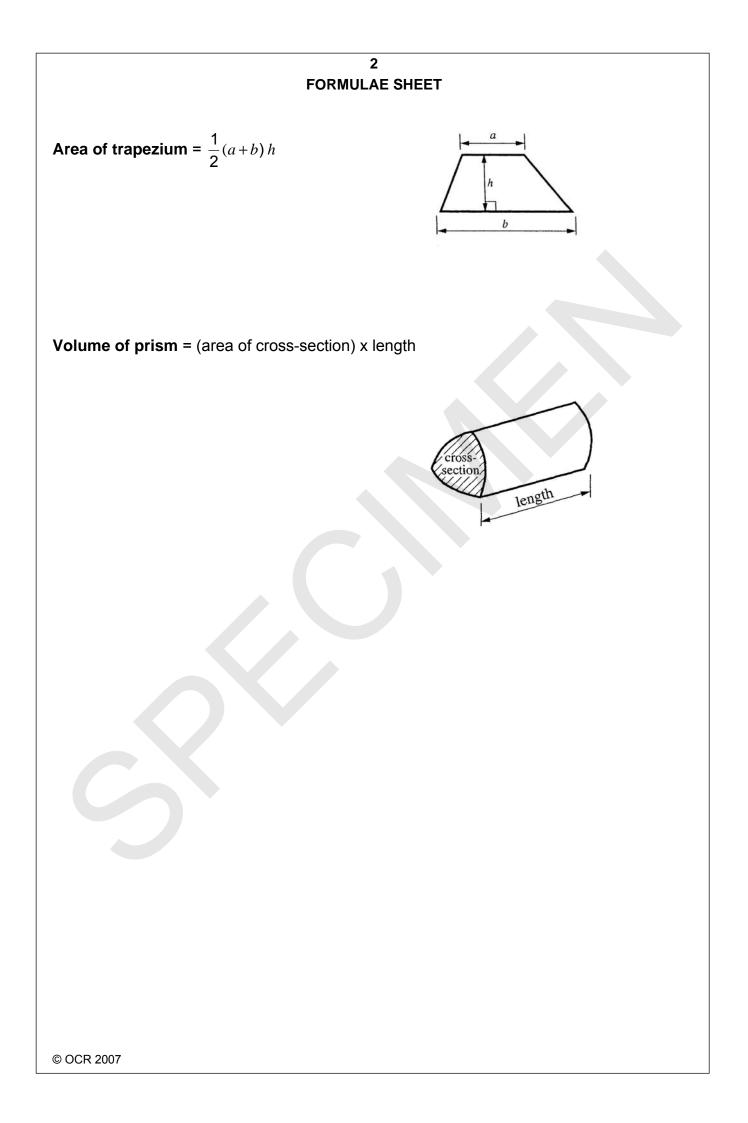
	EVEMENT	SPECIMEN						
GENERAL (MATHEM) Foundation		B281/A						
TERMINA	L PAPER – SECTION A							
SPECIME	N							
Additional Ma Ge	Candidates answer on the question paper. Time: 1 hour Additional Materials: Geometrical instruments Tracing paper (optional)							
Candidate Name								
Centre Number		Candidate Number						
 Write your na Answer all the Use blue or b Read each qu In many ques Do not write i Do not write o WRITE YOUF ELSEWHERE INFORMATION F The number of 	lack ink. Pencil may be used for grap lestion carefully and make sure you k tions marks will be given for a correct in the bar code. Dutside the box bordering each page. R ANSWER TO EACH QUESTION IN E WILL NOT BE MARKED.	hs and diagrams only. know what you have to do before starting your answer. t method even if the answer is incorrect.						
	NG You are not allowed a calculator in this paper.	For Examiner's Use Section A						
	This document consists of 14	printed pages and 2 blank pages.						

SP (SLM) T12103

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[Turn over



		-	
1	This	3 s is a map of Minehead.	
		Minehead Art Gallery N Hotel Hospital Theatre	
	(a)	Andy turns left out of the Station. He walks along The Avenue.	
		(i) Which compass direction is he walking in?(a)(i)	[1]
		(ii) Which building is on his right?	
	(b)	(ii) Roger comes out of the Hotel and turns left into North Road. He turns left into Blenheim Road.	[1]
		Which compass direction is he walking in?	
	(c)	(b) Val walks from the Hotel to the Art Gallery. Complete these directions for her journey.	[1]
		Turn left out of the Hotel into North Road.	
		Turn Info Quay Lane.	[1]
		Turn left into	[1]
			5
			[Turn over
e -			
© 0	CR 200	JU <i>1</i>	

London	05 33	06 34	07 39	08 12	09 09	10 12	10 42			
Paris	08 23	09 23	10 23	10 47	11 53	12 53	13 34			
Paris	13 43	15 07	16 10	16 43	17 16	18 19	19 43			
London										
a) (i) Atw	hat time doe	s the 08 1	2 from Lo	ndon arrive	e in Paris?					
				(a)(i)						
(ii) How	long does th	ne journey	v take?							
				(ii)	hc	ours	minutes			
•	es in Paris a									
-	nds 8 hours s ne time of the			aatab baal	k ta Landa	n 2				
What is u		e next tial	III SHE Call	Calch Dac						
				(b) _						
•	aking her gra			for the day						
She need	ls 1 adult ticl	ket and 3	child ticket	for the day						
She need	• •	ket and 3	child ticket	for the day						
She need	ls 1 adult ticl	ket and 3 ticket price	child ticket	for the day						
She need	ds 1 adult ticles shows the f	ket and 3 ticket price	child ticket es.	for the day						
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She need This table Adult Child	ds 1 adult tick e shows the t Sing £4 £2	ket and 3 ticket price gle 0 5	child ticket es. Return £59 £48	for the day ts.						
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She need This table Adult Child How muc	ds 1 adult tick e shows the t Sing £4 £2	ket and 3 ticket price gle 0 5	child ticket es. Return £59 £48	for the day ts.	turn tickets	s instead c	of single			
She need This table Adult Child How muc	ds 1 adult tick e shows the t Sing £4 £2	ket and 3 ticket price gle 0 5	child ticket es. Return £59 £48	for the day ts.	turn tickets	s instead c				

4

	0 12	16	18	28	32	42	48	80
(a)	is	a square	e number					
(b) 2 + 5 x	6 =							
(c) (21 – 1	3) x (14 – 8) =							3

4 This table shows the singles with the highest sales in Britain.

Artist	Title	Year	Number Sold (millions)
The Beatles	She Loves you	1962	1.89
Queen	Bohemian Rhapsody	1975	2.13
Wings	Mull of Kintyre	1977	2.05
Boney M	Brown Girl In The Ring	1978	1.99
Boney M	Mary's Boy Child	1978	1.79
John Travolta & Olivia Newton John	You're the One that I Want	1978	1.98
Frankie Goes to Hollywood	Relax	1983	1.91
Band Aid	Do They Know It's Christmas	1984	3.55
Robson & Jerome	Unchained Melody	1995	1.84
Elton John	Candle In The Wind	1997	4.86

(a) Which single sold nearest to two million?

(b) Write down the five largest sales in order, *largest* first.

largest

(c) There are three singles from 1978 in the top ten.

How many copies did these three singles sell altogether?

(c) million [2]

[1]

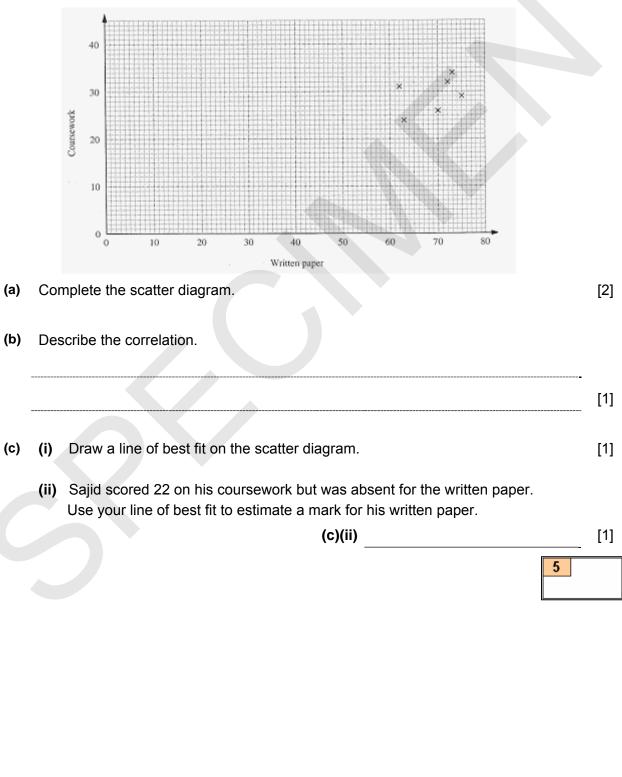
[2]

		7		
4	(d)	The Beatles song 'I Want to Hold Your Hand' sold fifty thousand singles.	one million seven hundred and	
		Write one million seven hundred and fifty thousand	d in figures.	[1]
			6	
5	This	map shows the temperatures in some Italian cities	one day in winter.	
		Milan -5°C Genoa -1°C Rome 1°C Naples2 6°C		
	(a)	Which city is the coldest?		[4]
	(b)	(a) Complete the sentences.		[1]
		(i) Genoa is	degrees warmer than Milan.	[1]
		(ii) Genoa is	degrees cooler than Naples.	[1]
			3	
			[Turn c	over
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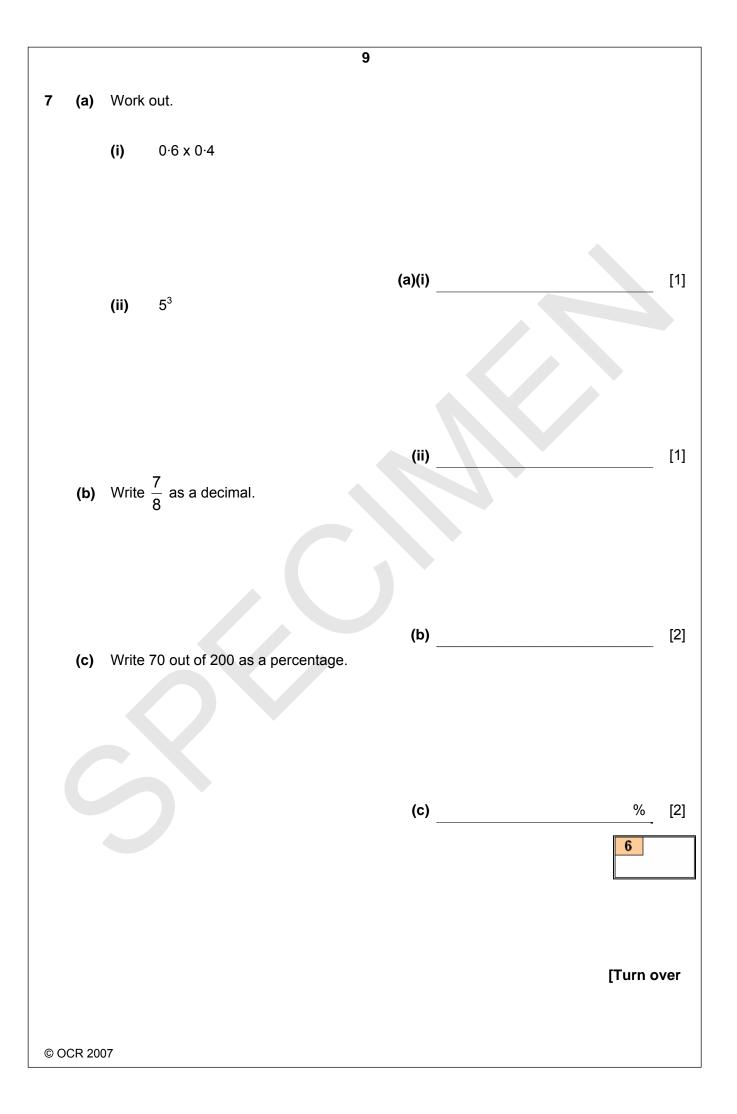
6 An examinations consists of a written paper and a piece of coursework. The marks for 12 candidates are shown below.

Written Paper	75	73	72	70	63	62	60	55	52	47	33	15
Coursework	29	34	32	26	24	31	25	19	20	18	17	5

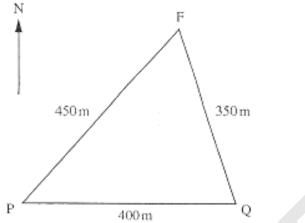
The marks for the first six candidates have been plotted on the scatter diagram below.



8



8 The diagram shows the positions of two piers, P and Q, and a ferry F. P is due West of Q.

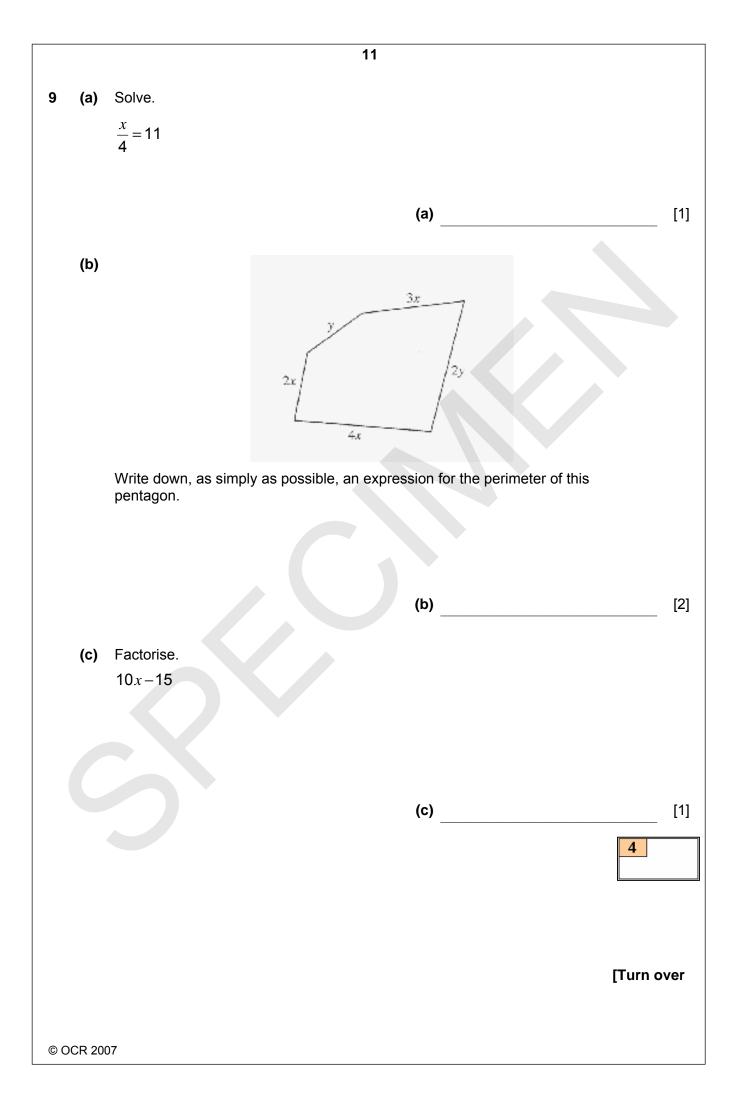


Make an accurate scale drawing of triangle PQF. Use a scale of **1 cm to 50 m**.

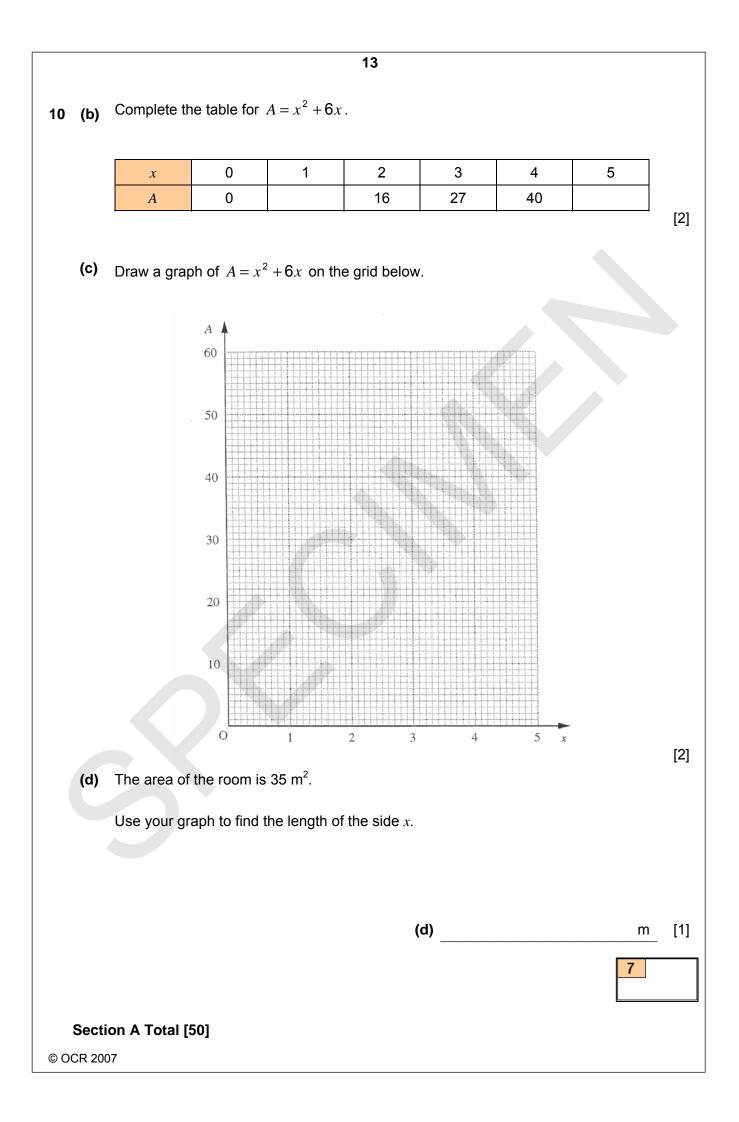
3]

3	

Not to scale



12	
10 All the lengths in this question are in metres.	
x	
The diagram shows the plan of a room.	
(a) Show that the area, <i>A</i> , of the room is given by $A = x^2 + 6x$.	
	[2]
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OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

MATHEMATICS C

B281/A

TERMINAL PAPER – SECTION A (Foundation Tier)

Specimen Mark Scheme

The maximum mark for this section is 50.

4		N/a at	D4		
1	(a)(i)	West	B1		
	(ii)	Hospital	B1		
	(b)	South-West	B1		
	(c)	Right Quay Street	B1	5	
2	(a)(i) (ii) (b)	10 47 2 hr 35 mins 18 19	B1 B1 B1		
	(c)	£27	M2A3	8	M1 59=3x48 or 2(40+3x25) A1 £203 A1 230 M1 230-203
				0	 WIT 230-203
3	(a) (b) (c)	16 32 48	B1 B1 B1	3	
4	(a) (b)	Brown girl in the ring 4.86, 3.55, 2.13, 2.005, 1.99	B1 B2		B1 0e00
		4.80, 3.33, 2.13, 2.003, 1.99 5.76	M1A1		M1 1.99=1.79=1.98
	(c)			6	
	(d)	1 750 000	B1	0	
5	(a) (b)(i) (ii)	Verona 2 7	B1 B1 B1	3	
6	(a) (b) (c)(i) (ii)	5 or 6 correct plots Positive I.o.b.f 50-56	B2 B1 B1 B1	5	B1 3 or 4 correct plots
7	(a)(i) (ii) (b) (c)	0.24 125 0.875 35%	B1 B1 M1A1 M1A1	6	M1 7÷ 8 M1 <u>35</u> or 70 ÷ 200 x 100
8		PQ 8 cm PF 9 cm QF 7 cm	B1 B1 B1	3	All lines ± 2 mm

9	(a) (b) (c)	$ \begin{array}{r} 44 \\ 9x + 3y \\ 5(2x - 3) \end{array} $	B1 B2 B1	4	B1 9 <i>x</i> or 3 <i>y</i>
10	(a) (b) (c) (d)	$x \times x + 3 \times 2x$ 7,,, 55 smooth curve through plotted points 3.5 - 3.7 ft	B2 B1 B1 B2 B1ft	7	Convincing B1 1 error in plots

Section A Total 50

Question	AO2	AO3	AO4	Total
1		5		5
2	5		3	8
3	3			3
4	6			6
5	3			3
6			5	5
7	6			6
8		3		3
9	4			4
10	7			7
Totals	34	8	8	50