# AQA

Please	write	clearly	in	block	capitals.

Candidate number	

Surname

Forename(s)

Centre number

Candidate signature

I declare this is my own work.

# Functional Skills Level 1 MATHEMATICS

Paper 2 Calculator

Time allowed: 1 hour 30 minutes

### Materials

- For this paper you must have:
- a calculator
- mathematical instruments.

#### 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.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- · State the units of your answer where appropriate.

#### Information

- · The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- 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.



IB/M/Jan22/E8

For Examiner's Use		
Question	Mark	
1–7		
8	110 40	
9	Sec.	
10		
11		
TOTAL		

8361/2

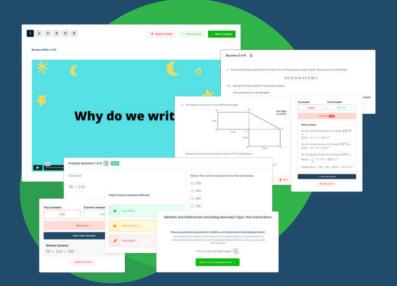
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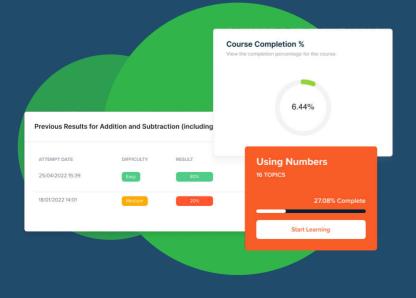
# FUNCTIONAL SKILLS ONLINE COURSES

tional Skills English Initial Assessment	assessmen curre From this dia	r results from this initial t, we estimate you are ntly at Level 1.5. gnostic, we think one of ng courses would be suitable:
🖷 13 Questions 📲 No Timo Linit		ional Skills 5 Level 2
Start Initial Assessment	≡ 35 Topic Count	© 105 Tests
Functional Skills Maths Initial Assessmen	it is	<b>1 43</b> Mock Exams
S Questions No Time Limit Mixed Calculator		Enrol Now
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- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam

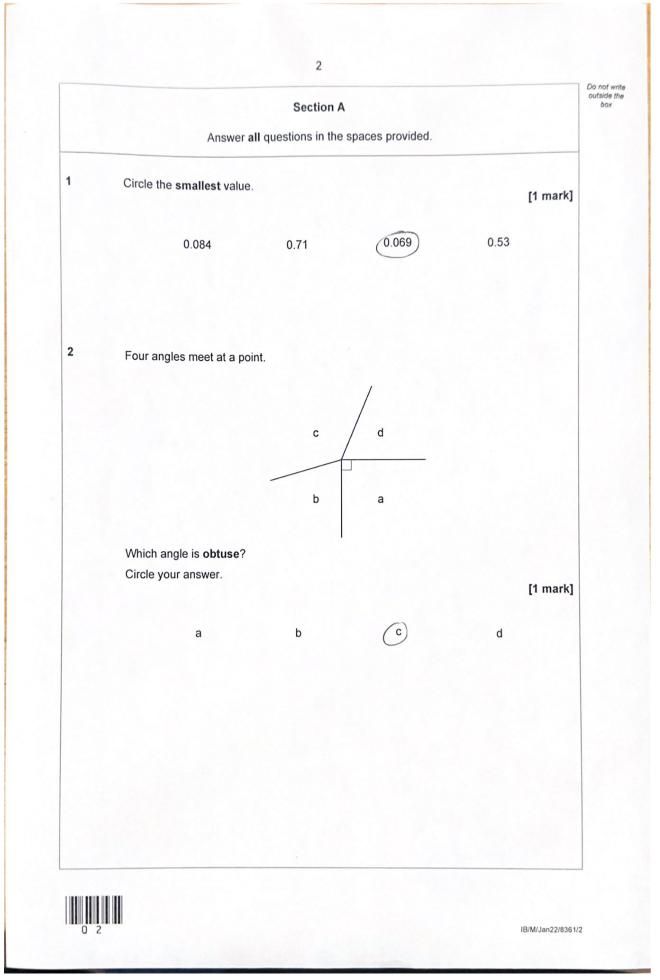


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- See your progress through as you progress through each topic area
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- View historical attempts to analyse your progress over time

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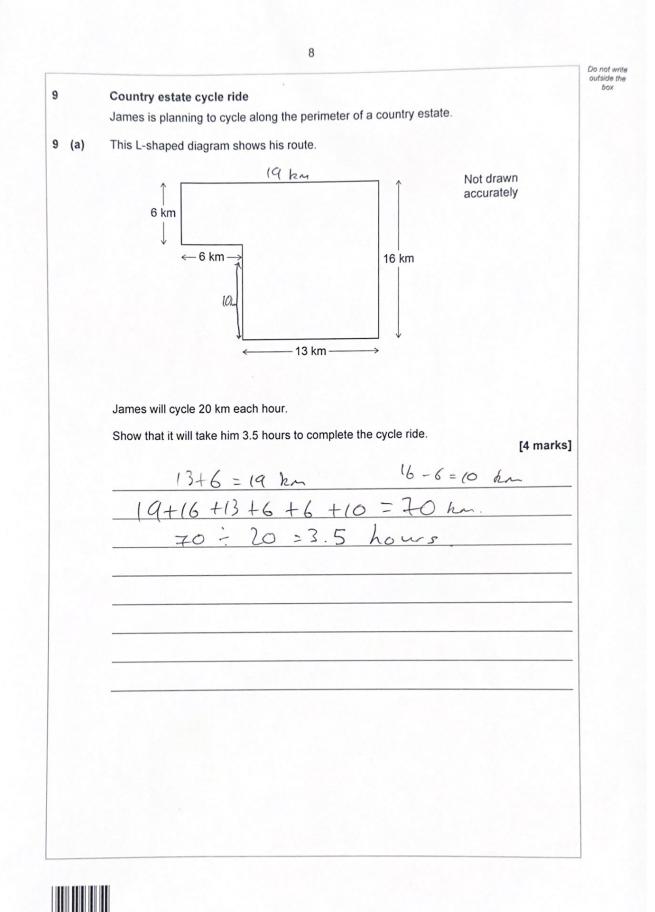
3	Convert 3.2 litres to millilitres.	[1 mark]
	Answer 3200	millilitres
4	A fair, ordinary dice is rolled. Write down the probability of rolling the number 3	
	Answer6	[1 mark]
5	Here is a scale. 1 cm represents 8 km What does a length of 2.5 cm represent? $2.5 \times 8 = 20 \text{ km}$	[2 marks]
	Answer 20 km	

~	4	Do ou
6	Here are six values. 10 6 4 12 5 17	
	Work out the mean.	
		[3 marks]
	$\frac{10 + 6 + 4 + 12 + 5 + 17 = 54}{54 - 6 = 9}$	
	54 - 6 = 1	
	Answer9	
7	Decrease 1600 by 20%	
		[3 marks]
	1600 × 0.8 = 1280	
	Answer 1280	
	Answer 1280	

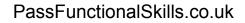
	Section B					
	Answer all questions in the sp	paces provided.				
3	Holiday to Portugal					
	Sally is booking a family holiday to Portugal.		300 B 1 - 89 B			
3 (a)	The table shows the cost of flights and villa rental.					
	Flights	£872				
	Villa rental	£1980				
	Sally will also hire a car.					
		have bird				
	Hire $cost = \pounds130 + \pounds35 \times$	number of days nired				
	Sally has £3500 to pay for flights, villa rental a	nd car hire.				
	Does she have enough to hire a car for 14 day	rs?				
	You must show your working.		[4 marks]			
	3500 - 872 - 198 130 + 35 × 14 = £620	0 - 7648 a	wailable_			
	<u>f620 2 f64</u>		r hire			
	Yes, Sally does he	ave enough	money.			
	Question 8 continues on t	he next page				

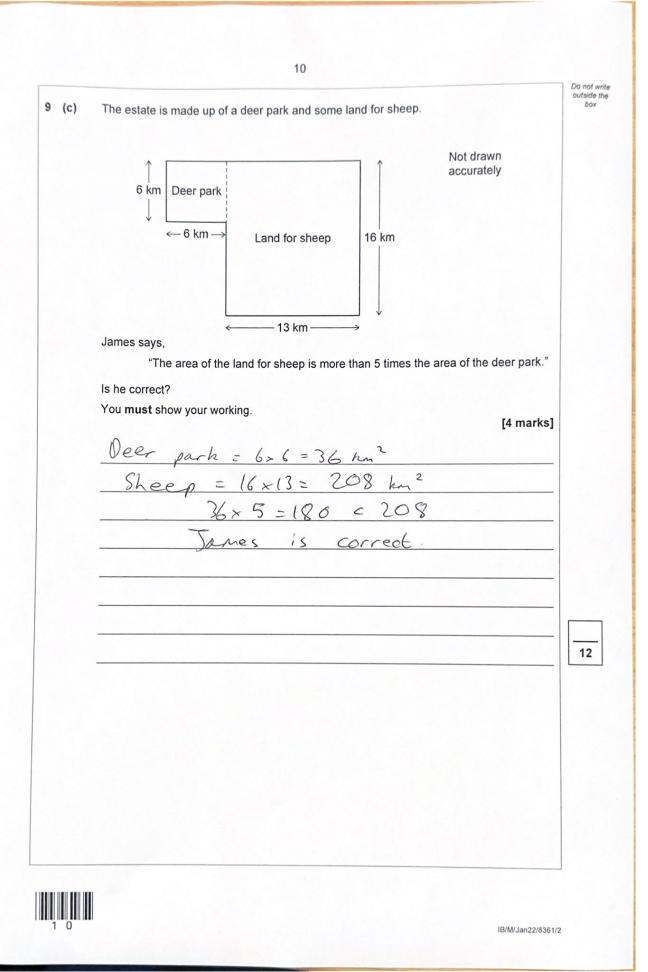
		Do not outside box
3 (b)	The holiday is for 14 days.	
	Sally wants to have 200 euros spending money <b>per day</b> . She already has 192 euros left from another holiday.	
	The exchange rate is $\pounds 1 = 1.16$ euros She says,	
	"Changing £2200 into euros will be enough."	
	Is she correct?	
	You must show your working	
	[3 m	arks]
	14 × 200 = 2800 euros needed	
	2800-192 = 2608 ewos needed	
	2200 × 1. 16 = 2 2552 euros	
	2552 < 2608	
	Sally does not have enough eiros.	
	Ceros.	

	The family have to travel to the UK airp At the end of the holiday, they have to t They can travel by taxi or drive.		b.			
	Taxi	Drive				
	Total cost £145	The airport is 98 miles from home Petrol 15 pence per mile Parking £85				
	How much cheaper is it to drive than tr		[4 marks]			
	One yourney:	$98 \times 0.15 = f.14.70$ $14.70 \times 2 = f.29.4$ 29.40185 = f.(14)				
	bolch ways.	$14.+0 \times 15 \pm 01.4$	40			
	Had parking:		. 40			
	$145 - 114.40 = \pm 30.60$					
	Answer£	60	-			
	Turn over for t	he next question				



9 (b)	) James will drive from home to the country estate.						
. ,	Here is his plan for the day.						
	Drive to the country estate	40 minutes					
	Do the cycle ride	3.5 hours					
	Have a snack	20 minutes					
	Drive back home	40 minutes					
	He needs to be home by 4 pm						
	What is the latest time that he can leave home to g	to on the cycle ride?					
			[4 marks]				
		Omin					
	=14	40~					
	Total time = 14 40		30 n				
	= 52 1						
	Sh lon before	4pm = 10	: 50am				
	Answer 10:50 an						
	Answer						
	Answer $(0,0)$						
	Answer $( ) ) ) ( ) $						
	Answer $( ) ) ) ( ) $	A- 1					
	Answer $( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )$	<u> </u>					
	Answer	<u> </u>					
	Question 9 continues on the n						





11

Clothes company — making badges
A clothes company makes school uniforms.
They use a machine to make badges for blazers.
The machine usually makes 5000 badges per day.

10 (a) One day, the machine makes 5000 badges.2 of the badges are faulty.The manager says,

"The probability that a badge is faulty is 
$$\frac{1}{250}$$

Is he correct?

You must show your working.

[2 marks]

Do not write outside the box

5000 25 le manager 2500 isu 250 The

Question 10 continues on the next page

Turn over ►

12 Do not write outside the box 10 (b) One week, the machine broke down on Wednesday. The machine only made 1400 badges that day. The machine still produced 25000 badges that week. It produced the same number on Thursday as on Friday. Complete the table. [3 marks] TOTAL Friday Monday Wednesday Thursday Tuesday 6800 25000 6800 1400 5000 5000 25000 - 5000 - 5000 - 1400 = 13600 13600:2=6800 on Thursday and Friday 6800 IB/M/Jan22/8361/2

			13		Do no outsid
10 (c)	The table shows the cos	sts of making 5	000 badges.		be
	Μ	laterials	17p per badge		
	0	ther costs	£265		
	The company wants to make at least 40% profit on the costs.				
			any should charge per bado	je.	
	Give your answer in per	ice.		[6 marks]	
	0.17	x 5000	= £850		
	850 .	+265=	£1115		
	RUE	XR.			
	(115	5 × 1.4	=£1561		
	150	61-50	060 = 0.312	= 31.20	
		32p			
	Answe	r	32p	pence	1
			1		
				Turn over ►	

### 11 Hotel work

Aisha works part-time in a hotel.

11 (a) Aisha is paid an hourly rate of £8.85 for working any day from Monday to Saturday. She is paid double this hourly rate for each hour worked on Sunday.

Aisha wants her pay to be at least £230 next week.

Here are the hours she will work from Monday to Saturday.

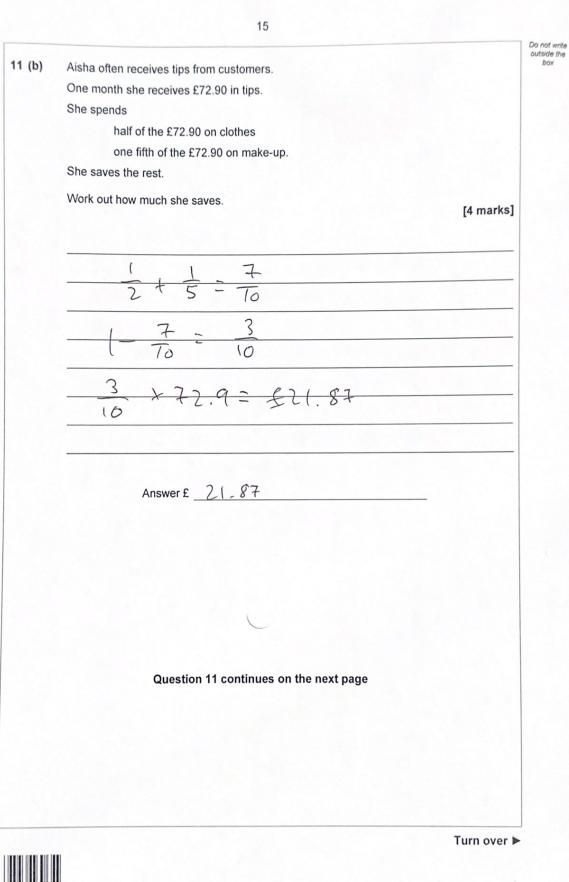
Monday	5 hours
Thursday	4 hours
Saturday	7 hours

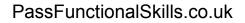
Work out the minimum number of hours she needs to work on Sunday. You **must** show your working.

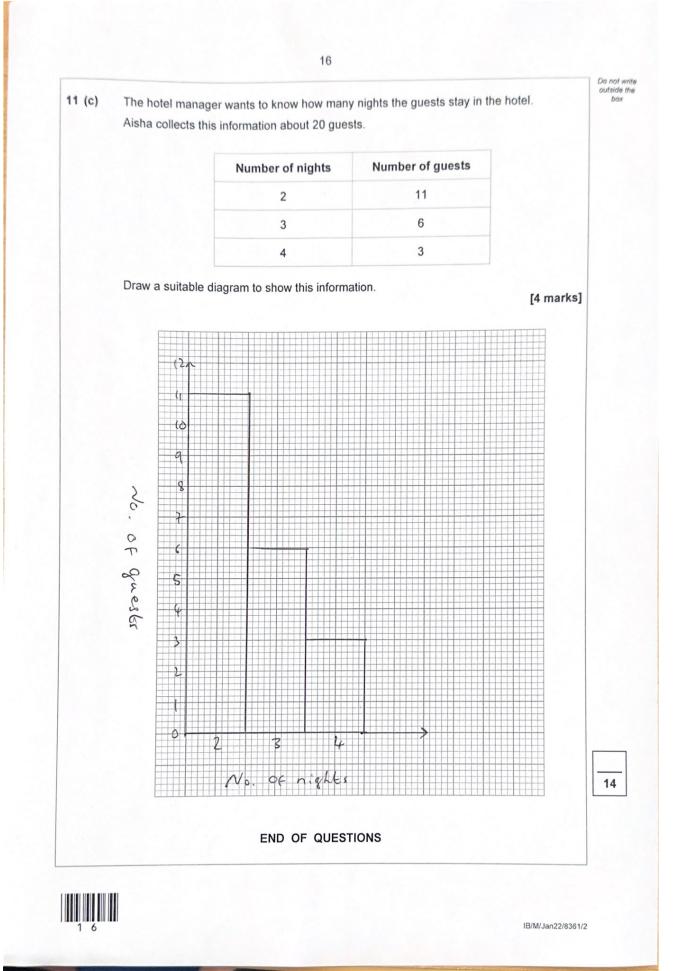
[6 marks]

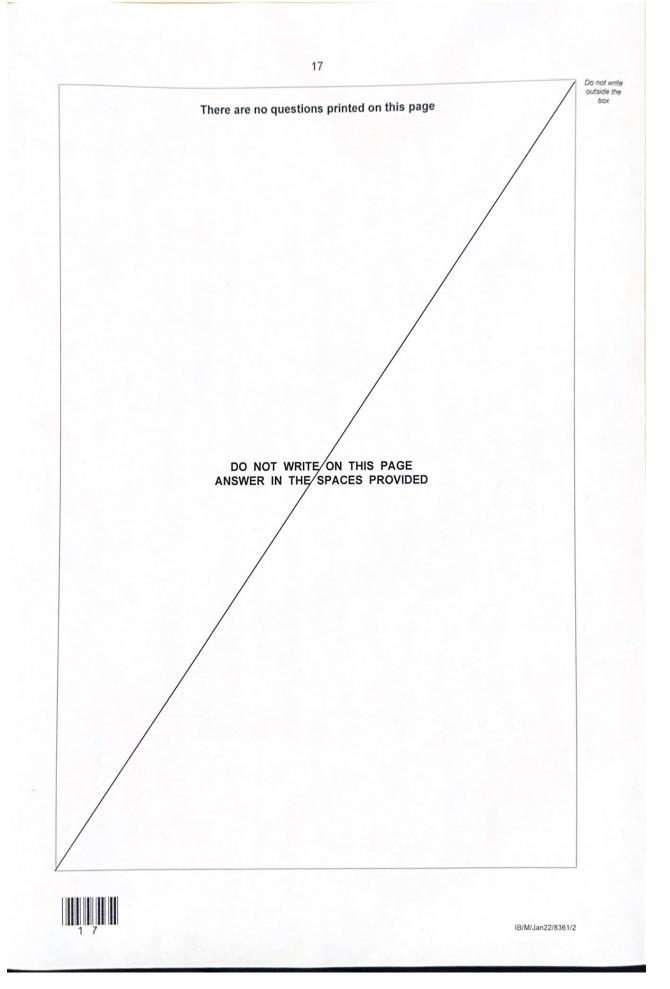
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5+4+7=16 16 × 8.85 = £141.60 £230 - £14, 60 = £ 88.40 £8.85×2= \$17.70 88.40 -17.70 = 4.99 ... hr 5 hours Answer 5 hours



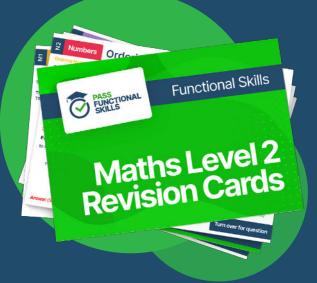












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