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AQA	
Please write clearly in	block capitals.
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	
	I declare this is my own work.

Functional Skills Level 1 MATHEMATICS

Paper 2 Calculator

Tuesday 25 February 2020

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.

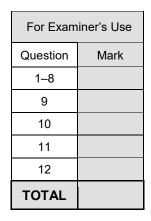
Information

- 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.





8361/2 QAN 603/4257/2

Afternoon

Time allowed: 1 hour 30 minutes

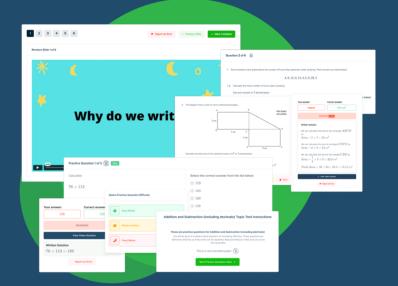
IB/M/Mar20/E6



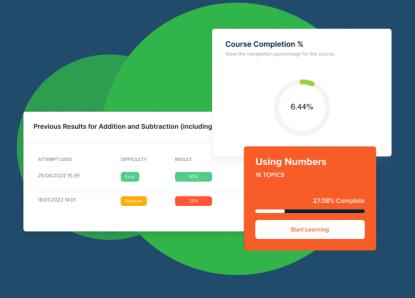
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Red	assessmen curre From this dia	r results from this initial t, we estimate you are ntly at Level 1.5. ignostic, we think one of ing courses would be suitable:
8 13 Questions 🛞 No Time Limit Start Initial Assessment		ional Skills s Level 2 • 105 Tests
Functional Skills Maths Initial Assessmen Maths	t is	43 Mock Exams
25 Ouestions No Time Limit		Enrol Now
Start Initial Assessment	Pi	ick my own

- 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

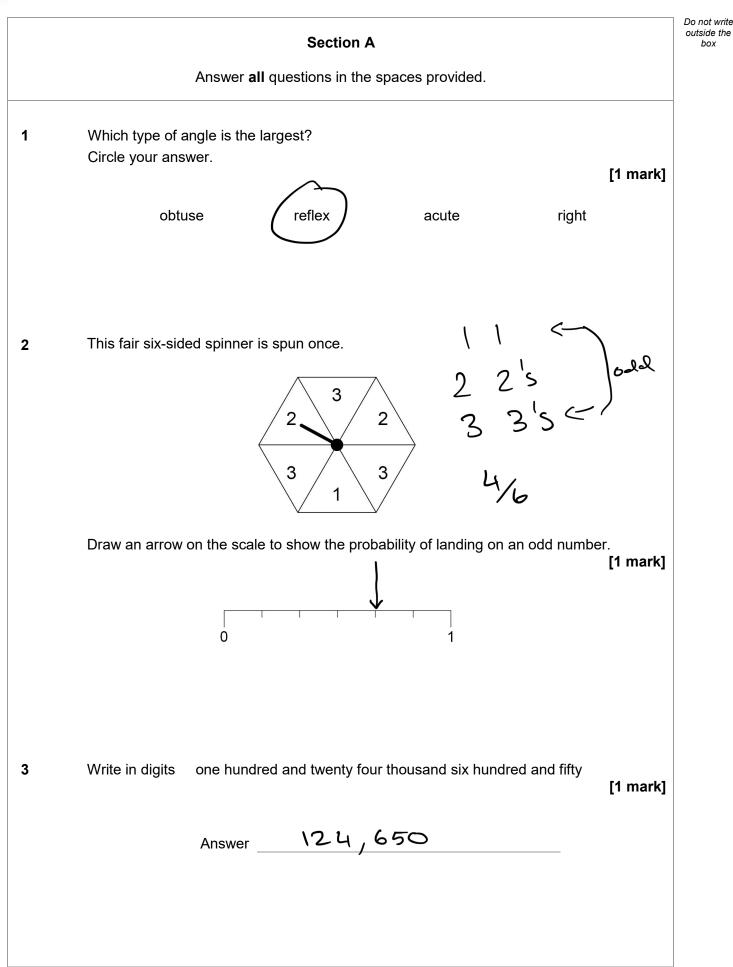


- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions



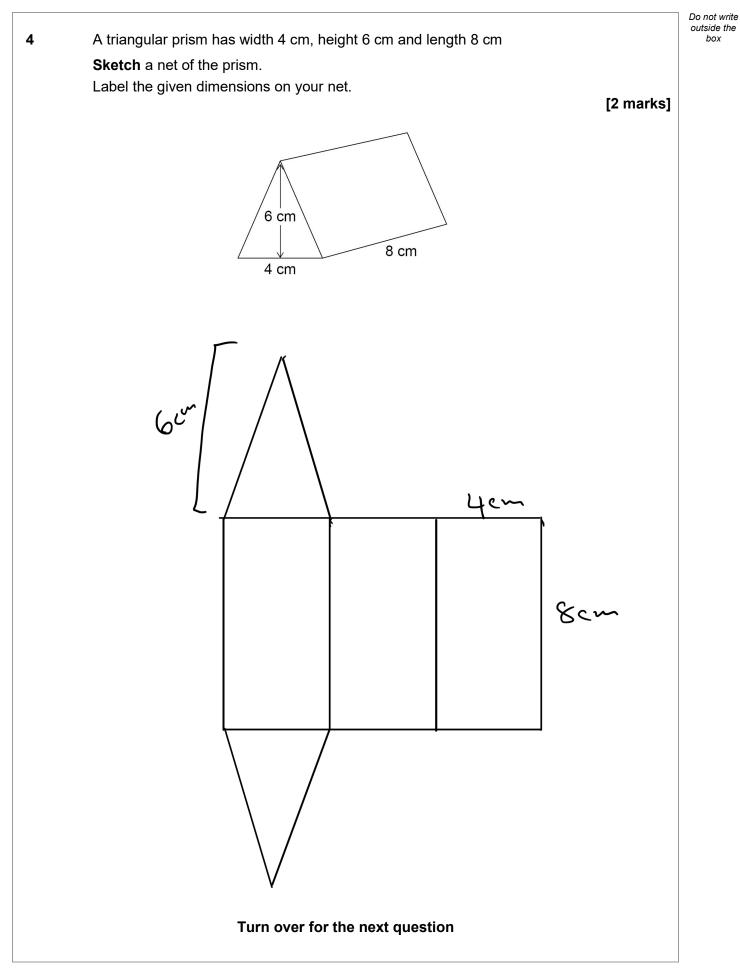
- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- View historical attempts to analyse your progress over time

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box





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6 Round 7.8652 to 2 decimal places.	[1 mark]
Answer 7.8	7
Convert 1200 grams to kilograms. 1200 - 100	[2 marks]
Answer 1.2	kilograms



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	Do not write outside the box
Answer 31	
8 Increase 250 by 30% [3 marks] 30'7. = 0.3 $1.3 \times 250 = 325$	
325	12
Turn over for Section B	
Turn over ►	



	Section B		
	Answer all questions in the spaces provided.		
9	Dance studio		
	Megan owns a dance studio.		
9 (a)	One day, Megan starts teaching her dance classes at 5.30 pm Megan		
	 teaches two classes, each lasting 45 minutes 		
	 teaches one class lasting 30 minutes 		
	 has 10-minute breaks between classes 		
	 needs 25 minutes to tidy up and lock up after the last class. 		
	She plans to meet up with friends at a restaurant after her classes.		
	It takes 12 minutes to walk from the dance studio to the restaurant.		
	Does she get to the restaurant by 8.30 pm? You must show your working. -6		
	45x2 = 90 + 10 = 100		
	100 + 10 + 30 + 25 = 165		
	mins		
	165 + 12 = 177 mins		
	= 2 hours 57 mins		
	5:30 pm + 2 hours 57 miles		
	= 8:27pm		
	/		
	$\sum (a - 2) = a + b - b - b - b - b - b - b - b - b - b$		
	Yes, 3 mins early		



		Do not write outside the
9 (b)	Megan is starting a new dance class.	box
	The floor space available for the dancers is a rectangle measuring 13.8 m by 7.1 m	
	Each dancer needs 4 m ² of floor space.	
	Work out the maximum number of dancers that can be in the dance class.	
	10 $\overline{10}$ [4 marks]	
	$15.8 \times 7.1 = 97.98$	
	$\frac{13.8 \times 7.1 = 97.98}{97.98 \div 4 = 24.495}$	
	24	
	Answer 29	
	Question 9 continues on the next page	
L	Turn over ►]



outside the 9 (c) Megan is shopping for a new speaker for her dance studio. She sees offers in two shops for the speaker. G Tone Music Shop Oma's Music Store Speaker Speaker Usual price £129 Usual price £112 Special offer Special offer 25% off $\frac{1}{3}$ off Megan wants to pay the lowest price possible. Which of these shops should she choose? You must show your working. [5 marks] -129 = 586 $\boldsymbol{\lambda}$ 0,25 1-0.25 =0.75 25.1. 112 = 584 84 < 586 Answer Oma's



13

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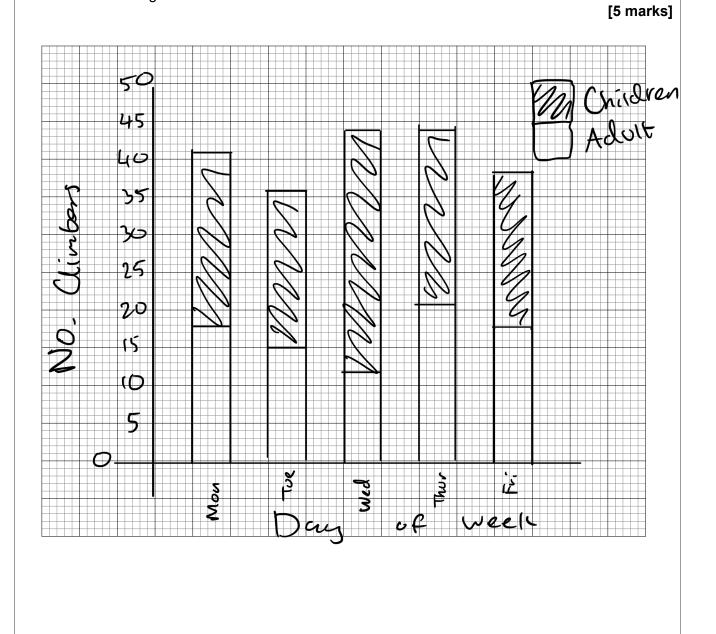
	Indoor climbing centre	out
) (a)	At a climbing centre there must be at least 1 member of staff for every 7 climbers.	
	There are 6 members of staff for one session.	
	23 climbers have booked for this session.	
	Work out how many more climbers can book for this session.	
	[3 marks]	
	$6 \times 7 = 42$	
	42 - 23 = 19	
	Answer 17	
	Question 10 continues on the next page	



10 (b) The table shows the number of climbers that visited the climbing centre on Monday to Friday one week.

	Monday	Tuesday	Wednesday	Thursday	Friday
Adults	18	15	12	21	18
Children	23	21	22	23	20

Show this information on a suitable diagram. Use the grid below.





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box

10 (c)	The climbing centre organises a competition for climbers. Each climber has six attempts at climbing a 15-metre wall. To qualify for the final a climber must have a mean time of less than 8 seconds. Here are Oliver's times, in seconds, for his six attempts.	Do not writ outside th box
	9.22 8.58 7.79 7.23 8.66 8.14	
	Does Oliver qualify for the final? You must show your working.	
	[4 marks]	
	9.22 + 8.58 + 7.79 + 7.23	
	+ 8.66 + 8.14 = 49.62	
	9.22 + 8.58 + 7.79 + 7.23 + 8.66 + 8.14 = 49.62 49.62 - 6 = 8.27	
	No	
		12
	Turn over for the next question	



Turn over ►

11

Back to school

11 (a) Sandra is shopping for items of school uniform for her children Fred and Beth. The shopping list below shows the prices of the items Sandra needs to buy.

Fred	Beth
2 school jumpers - £17.50 each	2 packs white shirts - £11.99 per pack
3 grey trousers - £10.75 each	2 skirts - £9.50 each
1 sports polo shirt - £14	1 sports polo shirt - £14.50
1 pack white shirts - £12.95 per pack	1 sports skort - £9
School shoes - £45	1 rugby shirt - £22.95
	School shoes - £38

Fred says,

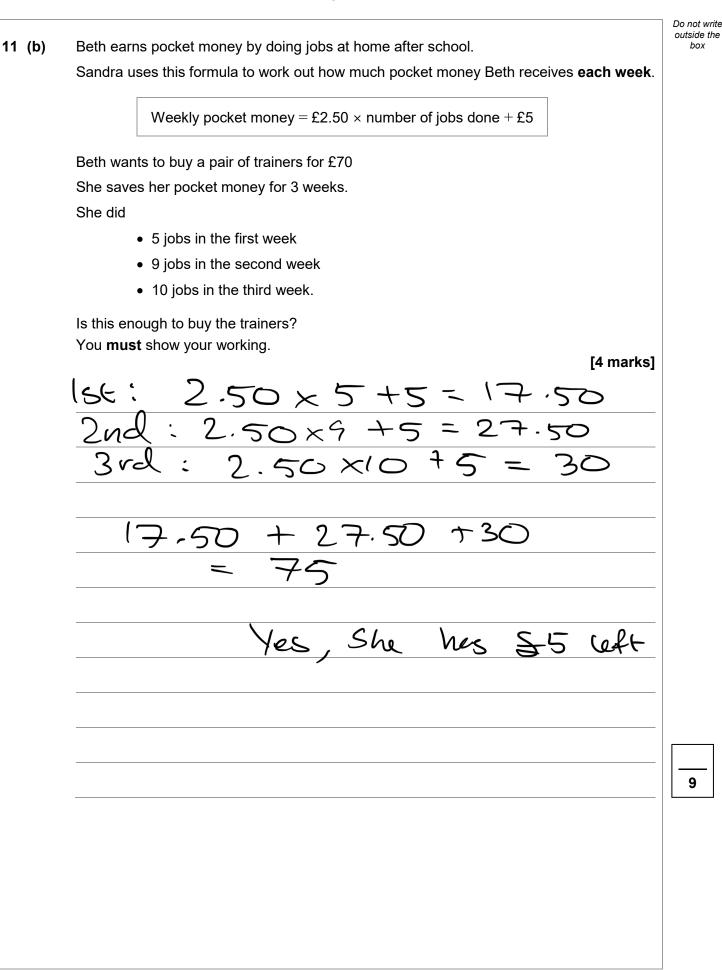
"The total cost of my uniform is lower than Beth's."

Is Fred correct? You **must** show your working.

 $2 \times 17.5 + 3 \times 10.75 + 12.95 + 12.95 + 12.95 = 139.20$ Ţ, $2 \times 11.99 + 2 \times 9.50 + 14.50$ = 9 + 22.95 + 38 = 127.43 B Fred's costs more 80 no.



[5 marks]

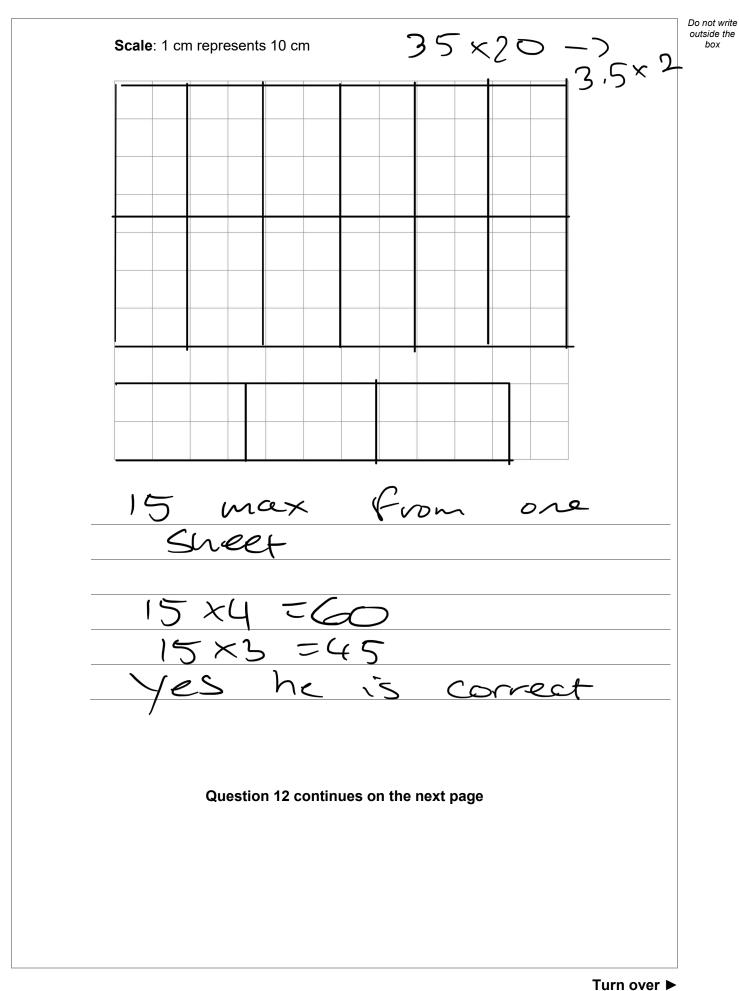




12 Handbags Jon makes handbags to sell online. Jon wants to make 50 handbags. For each handbag Jon needs a rectangle of leather measuring 35 cm by 20 cm 12 (a) 35 cm 20 cm He cuts the rectangles from sheets of leather measuring 120 cm by 100 cm The grid on the opposite page is a scale drawing of a sheet of leather. Jon says, "I need 4 sheets of leather to make 50 handbags." Is he correct? You may use the grid to help you. You must show your working.



[5 marks]

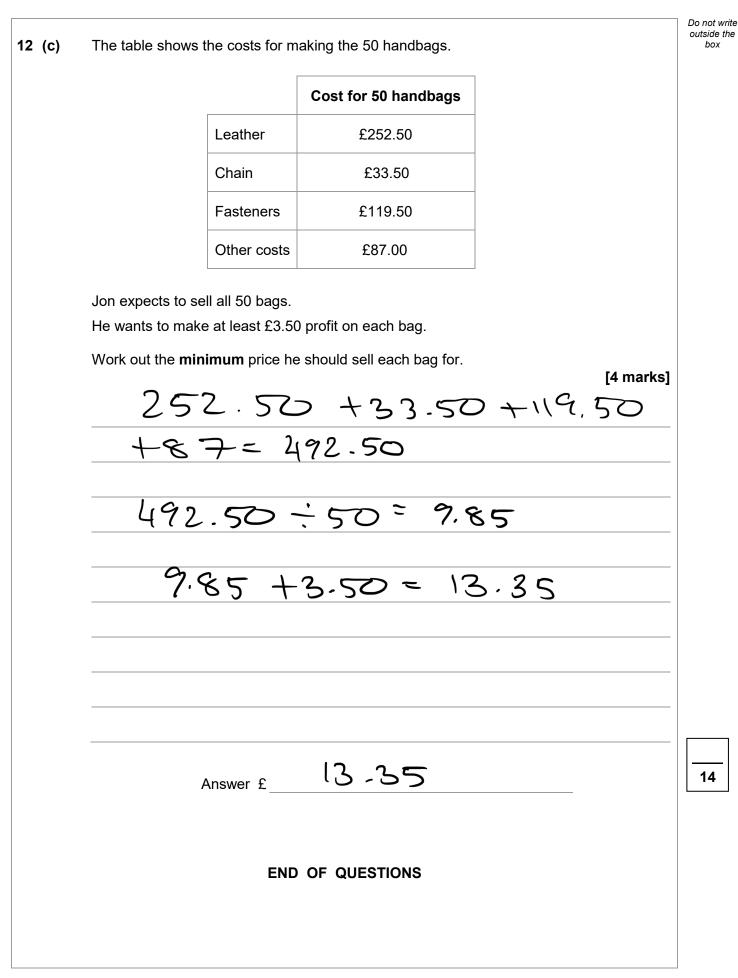




12 (b)	Jon fixes a chain to each handbag to make the handle.
-	Each chain handle is 75 cm long.
	He needs enough chain for the 50 handbags.
	Jon has 5 rolls of chain.
	Each roll of chain is 6 metres long.
	How many more 6-metre rolls of chain does he need? You must show your working.
	[5 marks]
	6m = 660cm
	6m = 600 cm 600 - 75 = 8 Chairs per
	roll
	50-8= 6.25 rous needed Needs 7 rous
	Needs 7 mis
	7-5=2
	Anouror 2
	Answer



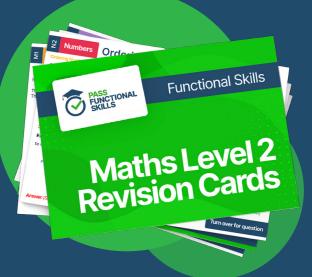
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