# AQA

Please write clearly in	n 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.

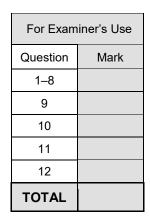
#### Information

- 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.



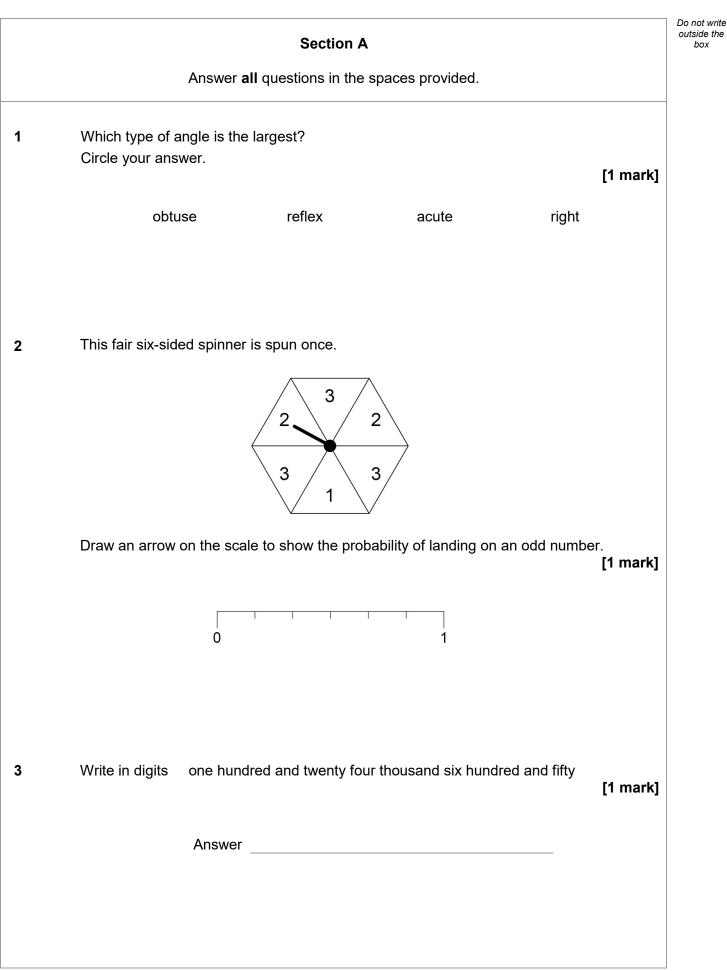


### 8361/2 QAN 603/4257/2

IB/M/Mar20/E6

Afternoon

Time allowed: 1 hour 30 minutes





8 cm

Turn over for the next question



Turn over ►

6 cm

4 cm

5	Round 7.8652 to 2 decimal places.	[1 mark]
	Answer	
j	Convert 1200 grams to kilograms.	[2 marks]
	Answer	kilograms



7	How many days are there in October?	[1 mark]	Do not write outside the box
	Answer		
8	Increase 250 by 30%	[3 marks]	
	Answer		12
	Turn over for Section B		



	Section B	
	Answer <b>all</b> questions in the spaces provided.	
	Dance studio	
	Megan owns a dance studio.	
(a)	One day, Megan starts teaching her dance classes at 5.30 pm Megan	
	<ul> <li>teaches two classes, each lasting 45 minutes</li> </ul>	
	<ul> <li>teaches one class lasting 30 minutes</li> </ul>	
	<ul> <li>has 10-minute breaks between classes</li> </ul>	
	<ul> <li>needs 25 minutes to tidy up and lock up after the last class.</li> </ul>	
	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 <b>must</b> show your working.	
	Tou must show your working.	[4 marks]



			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 <sup>2</sup> of floor space.		
	Work out the maximum number of dancers that can be in the dance class.		
		[4 marks]	
	Answer		
	Question 9 continues on the next page		
		Turn over ►	



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
Speaker
Usual price £129
Special offer
$\frac{1}{3}$ off
3

Oma's Music Store Speaker Usual price £112 Special offer 25% off

Megan wants to pay the lowest price possible.

Which of these shops should she choose? You **must** show your working.

[5 marks]

Answer



13

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outside the
box

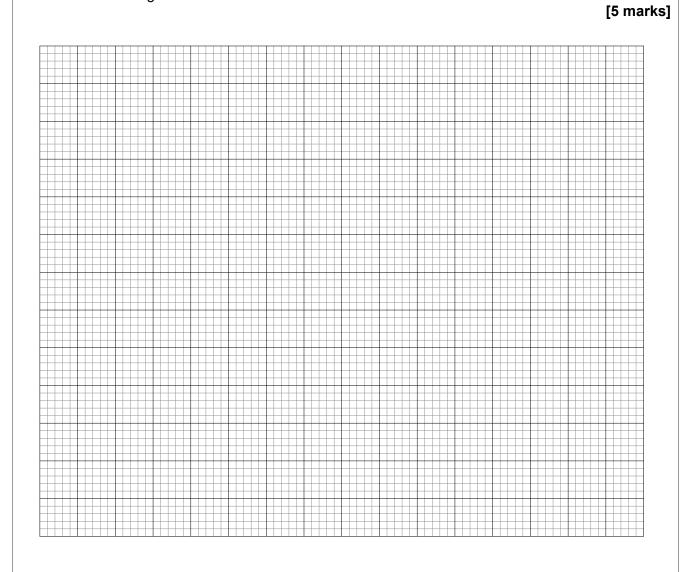
10	Indoor climbing centre	Do not writ outside the box
10 (a)	At a climbing centre there must be at least 1 member of staff for every 7 climbers.	
	There are 6 members of staff for one session.	
	23 climbers have booked for this session.	
	Work out how many <b>more</b> climbers can book for this session. [3 marks]	
	Answer	
	Question 10 continues on the next name	
	Question 10 continues on the next page	
	Turn over ▶	•

IB/M/Mar20/8361/2

### **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.





Do not write outside the box

						-		Do not write outside the
10 (c)					tition for cli			box
					ng a 15-me			
						time of <b>less th</b>	an 8 seconds.	
	Here are	e Oliver's ti	mes, in se	conds, for	his six atte	mpts.		
	9.22	8.58	7.79	7.23	8.66	8.14		
				- 10				
		iver qualify <b>st</b> show yo						
				-			[4 marks]	
								12
			Turn o	ver for the	e next que	stion		
<u> </u>							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.

[5 marks]



	Weekly pocket money = $\pounds 2.50 \times \text{number of jobs done} + \pounds 5$	
Beth want	ts to buy a pair of trainers for £70	
	s her pocket money for 3 weeks.	
She did		
	<ul> <li>5 jobs in the first week</li> </ul>	
	<ul> <li>9 jobs in the second week</li> </ul>	
	<ul> <li>10 jobs in the third week.</li> </ul>	
Is this end	ough to buy the trainers?	
	t show your working.	[4 marks]
		Turn over ► IB/M/Mar20/8361/2

Sandra uses this formula to work out how much pocket money Beth receives each week.

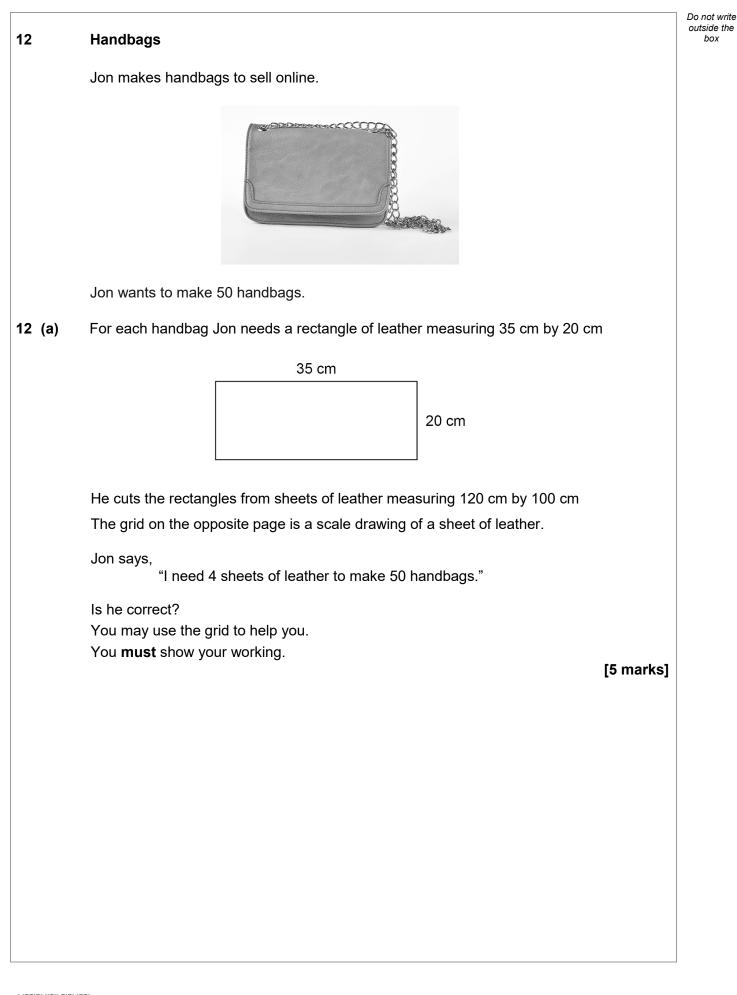
Beth earns pocket money by doing jobs at home after school.

11 (b)

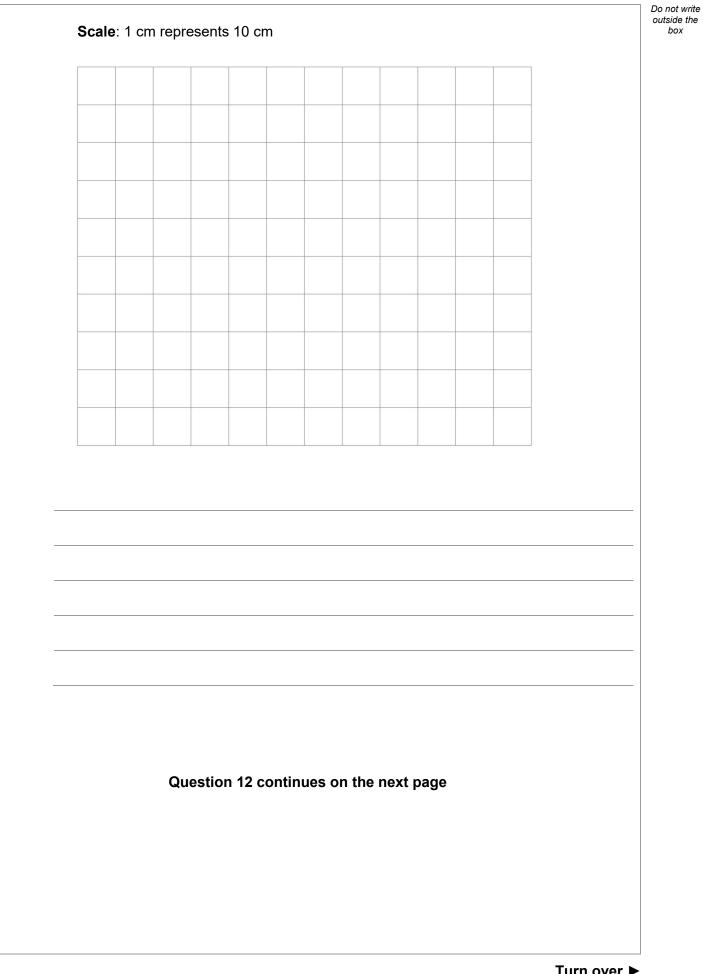
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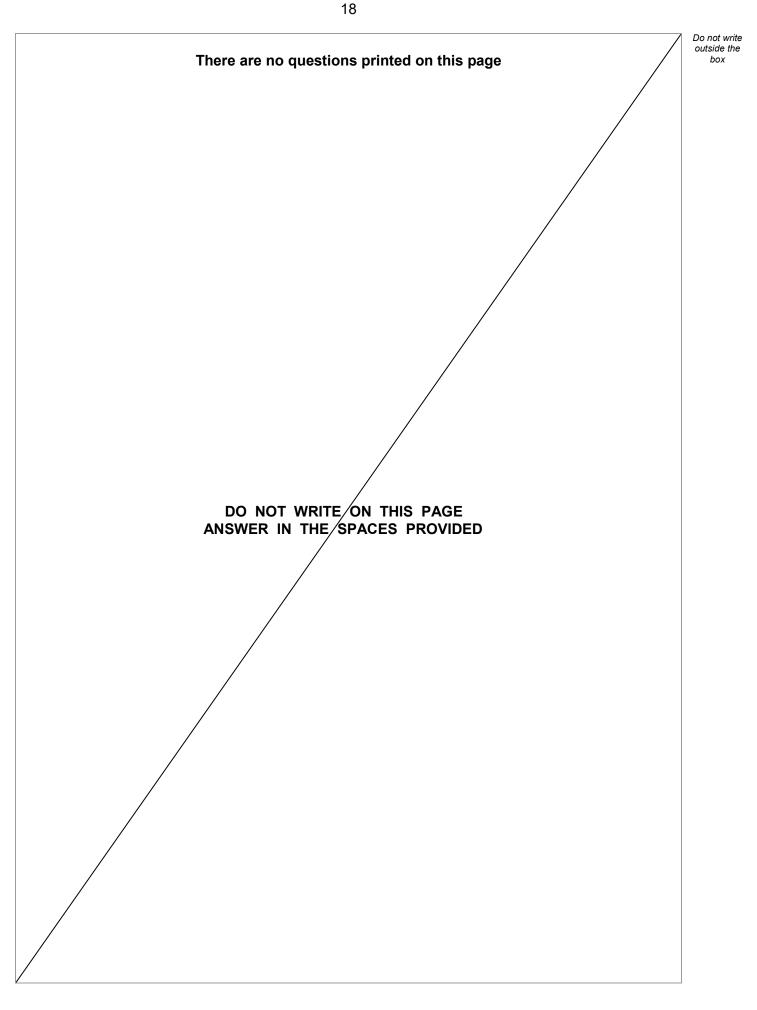
Turn over ►

		Do not write
12 (b)	Jon fixes a chain to each handbag to make the handle.	outside the box
	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 <b>must</b> show your working.	
	[5 marks]	
	Answer	



12 (c)	The table shows t	he costs for m	aking the 50 handbags.		Do not write outside the box
			Cost for 50 handbags		
		Leather	£252.50		
		Chain	£33.50		
		Fasteners	£119.50		
		Other costs	£87.00		
	Jon expects to se He wants to make		) profit on each bag.		
	Work out the <b>min</b>	imum price he	should sell each bag for.	[4 marks]	
	ļ	Answer £			14
		END	OF QUESTIONS		







Question number	Additional page, if required. Write the question numbers in the left-hand margin.			



	Do not write outside the
Additional page, if required. Write the question numbers in the left-hand margin.	box

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