## **PRACTICE PAPER SET 4**

Please write clearly, in block capitals.							
Centre number	Candidate number						
Surname							
Forename(s)							
Candidate signature							

# GCSE MATHEMATICS

Foundation Tier

AQA

Paper 1 Non-Calculator

## Exam Date

Morning

## Time allowed: 1 hour 30 minutes

#### **Materials**

For this paper you must have:

• mathematical instruments You must **not** use a calculator. X

#### 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 80.
- 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			
14 - 15			
16 - 17			
18 - 19			
20 - 21			
22 - 23			
24 - 25			
TOTAL			

# 8300/1F

	Answei	all questions in t	the spaces provided	J.	
1	Solve $\frac{x}{6} = 12$ Circle your answer.	6	18	72	[1 mark]
2	Circle <b>all</b> the numbers	that have 11 as a 122	factor. 132	133	[1 mark]
3	Does a cuboid have <b>m</b> Circle your answer. faces	o <b>re</b> faces, edges	or vertices?	vertices	[1 mark]



This is how the scores in a quiz are worked out.

5

Correct answer	3 points
No answer	-1 point
Incorrect answer	-2 points

5 (a) Team A answer 7 of their first 10 questions.They give 5 correct answers and 2 incorrect answers.

How many points do they score on the 10 questions?

[2 marks]

Answer

5 (b) Team B score 17 points on the first 10 questions.

Complete the table.

[3 marks]

	Number of questions	Total points
Correct answer		
No attempt		
Incorrect answer		
	Total = 10	Total = 17

Turn over for the next question

6	Which of	these is smallest	
-		25 centimetres as a fraction of 2 metres	
	or	30 grams as a fraction of 2 kilograms	
	or	11 pence as a fraction of £1 ?	
	You <b>mu</b>	<b>ust</b> show your working.	
			[5 marks]
		Answer	_

In	а	bag	of	coins
----	---	-----	----	-------

there are 36 coins

there is £6 altogether

 $\frac{3}{4}$  of the coins are 10p coins

there are **no** £1 or £2 coins.

Work out **one** possible set of coins. Complete the table.

[4 marks]

Coin	Number
	Total = 36

8300/1F



8 (c) The data for one of the students on Test B seems unusual.

On the scatter graph, put a circle around the point that represents this student. Give a reason for your choice.

[2 marks]

Turn over for the next question

9		The cost of fuel is £1.10 per litre. 1 gallon = $4.5$ litres	
9	(a)	Work out the cost of 1 gallon.	[3 marks]
		Answer £	
9	(b)	A car travels 35 miles per gallon of fuel. How many gallons are used for a journey of 105 miles?	[2 marks]
		Answer	gallons



	12	Do not write
11	Work out the value of x. Not drawn accurately $5x$ $4x$ $6x$	Do not write outside the box
	[3 marks]	
	Answer degrees	

Last season a football club sold 8000 season tickets at £250 each.	
This season the season ticket price is reduced by 20% to $\pounds 200$	
If the club sell 20% <b>more</b> tickets will the amount of money they receive increat decrease or stay the same?	ise,
You <b>must</b> show your working	
	[5 m
Answer	
Turn over for the next modion	
I urn over for the next question	

13	Solve $8x - 3 = 6x - 9$				[3 marks]
		r –			
		λ –			
14	How many sixths are in 1 Circle your answer.	.5 ?			[1 mark]
	4	6	9	15	
15	What is 150% of 36 ?				
	Circle your answer.				[1 mark]
	18	24	54	186	

Do not write outside the box



17		Harry is tiling a wall of area 25 m <sup>2</sup>	
		A tub contains 15 kg of tile cement.	
		The instructions say 2 kg of tile cement will tile 1 m <sup>2</sup> of wall.	
17	(a)	How many tubs does Harry need to buy?	<b>10</b>
			[3 marks]
		Answer	
17	(b)	In fact, Harry uses more than 2 kg of tile cement per m <sup>2</sup>	
		Without needing to buy more tubs.	
		what is the maximum amount he could use per m <sup>2</sup> ?	
			[2 marks]
		Answer	ka
			3
l			

		•				Do not write outside the
18	Work out $\frac{3.6}{0.4}$					box
	Circle your answer.				[1 mark]	
	90	9	0.9	0.09		
19	Expand and simplify	3(2x-5) + 4(2x+1)	- 1)		[2 marks]	
		Answer				
		Turn over for the n	ext question			
						_
						8

Г



Do not writ	19		
complete a task.	imes for 100 people	ormation about the t	The table shows in
	Frequency	Time, <i>t</i> , (minutes)	
	17	0 < <i>t</i> ≤ 5	
	28	5 < <i>t</i> ≤ 10	
	33	10 <i>&lt; t</i> ≤ 15	
	22	15 < <i>t</i> ≤ 20	
[2 marks]	onds. f times.	vas 3 minutes 40 sec	The shortest time v
seconds	utes	min	Answer
	0 minutes "	dian time is exactly 1	lack says,
	o minutes.	-	"The me

Turn over for the next question

21 (b) Jack says,

21

21 (a) Work out the greatest possible

			οι
Work out the	value of $(\sqrt{5})^2 + (\sqrt{5})^2$	$\left(\sqrt{6}\right)^2 - \left(\sqrt{7}\right)^2$	
You <b>must</b> s	low your working.		[1 mark]
	Answer		

Do not write

23 Using ruler and compasses,

construct a triangle ABC so that

BC is perpendicular to AB

AC = 9 cm

AB has been drawn for you.

[3 marks]

Α

В

Do not write outside the box

25	List the integers that satisfy both these inequalities.					
	2 <i>x</i> + 7 <	0				
	and $x > -1$	10				[2 marks]
	Answer					
	ie dine eth conce					
26	y is directly prop		х.			
	Complete the ta	adie.				[2 marks]
		x	-8	0	7	
		y			63	
		Tur	n over for t	he next quest	ion	



Do not	write
outside	e the
bo	x

28		Jon is drawing a quadrilateral. The length of each side is 5.2 cm to 1 decimal place.				
28	(a)	Complete the error interval for the length of one side. [2 mar				
		Answer	cm ≼ length <	cm		
28	(b)	Complete the error interval for the	ne perimeter.	[2 marks]		
		Answer	cm ≼ perimeter <	cm		
		ENI	D OF QUESTIONS			



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