

Rounding, Bounds and Error Intervals

A collection of 9-1 Maths GCSE Sample and Specimen questions from AQA, OCR, Pearson-Edexcel and WJEC Eduqas.

	Name:	
	Total Marks:	
. (a) Mia cycled 23 km, corre	act to the nearest km	
What is the least distance	te Mia Could Have Cy	cied?
	(a) km [1]
(b) A number x, rounded to	one decimal place,	s 4.7.
So the error interval for	x is given by 4.65 ≤	x < 4.75.
	,	
(i) A number y, rounded	d to two decimal plac	ces, is 4.13.
Write down the error	interval for y.	
	(b)(i)	[2]
(ii) A number z, rounded	d to two significant fi	gures, is 4700.
Write down the error	interval for z.	
	(ii)	[2]
. (a) Round 27 146 correct to		
(i) the nearest ten,		
,	(i)	[1]
(ii) the nearest thousand		[-]
(ii) the hearest thousand		[1]
(h) The width of a banch h		
(b) The width of a bench, b		•
Write down the error int	ervarior the width o	i the bench.

1

2



3. Round 162.64	1 5				
(i) to 1 dec	cimal place,				
	, ,		(i)		[1]
(ii) to 2 sig	gnificant figures	S.	•		
			(ii)		[1]
4. Find p if $p^3 = 1$	37.				
Give your answ	wer correct to 2	2 decimal pl	aces.		
					[2]
5. Write 2148 co	rrect to the nea	arest 100			
					[1]
6. Write 6819 to	the nearest 10	000			
					[1]
7. Jim rounds a i		ne decimal	place.		
The result is 7		forv			
write down th	e error interval	IOF X.			
					[2]
8. $x = 2500$ to the	he nearest 100				[=]
	llest possible v	alue of x.			
	•				[1]
	2449	2450	2495	2499	
9. (a) Write 218	7 correct to the	nearest 10			
					[1]
(b) Write 54 478	correct to the	nearest 100	00.		
					[1]

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CREDITS AND NOTES

Question	Awarding Body		
1	OCR		
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8	AQA		
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Notes:

These questions have been retyped from the original sample/specimen assessment materials and whilst every effort has been made to ensure there are no errors, any that do appear are mine and not the exam board's (similarly any errors I have corrected from the originals are also my corrections and not theirs!).

Please also note that the layout in terms of fonts, answer lines and space given to each question does not reflect the actual papers to save space.

These questions have been collated by me as the basis for a GCSE working party set up by the GLOW maths hub - if you want to get involved please get in touch. The objective is to provide support to fellow teachers and to give you a flavour of how different topics "could" be examined. They should not be used to form a decision as to which board to use. There is no guarantee that a topic will or won't appear in the "live" papers from a specific exam board or that examination of a topic will be as shown in these questions.



Links:

AQA http://www.aga.org.uk/subjects/mathematics/gcse/mathematics-8300

OCR http://ocr.org.uk/gcsemaths

Pearson Edexcel http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html

WJEC Eduqas http://www.eduqas.co.uk/qualifications/mathematics/gcse/

Contents:

This version contains questions from:

AQA - Sample Assessment Material and Practice set 1

OCR - Sample Assessment Material and Practice set 1

Pearson Edexcel – Sample Assessment Material, Specimen set 1 and Specimen set 2.

WJEC Eduqas - Sample Assessment Material

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