

Name:	Mel@JishMaths
Total Marks:	

- 23km \nearrow UB 23.5
 \searrow LB 22.5

(i) A number y , rounded to two decimal places, is 4.13. $\rightarrow LB = 4.125$

(b)(i) $4.125 \leq y \leq 4.135$ [2]

- 4700 \rightarrow UB 4750
 \rightarrow LB 4650

(ii) [2]

- $$27 \frac{1}{4} 6$$

(i) [1]

- (ii).....27000..... [1]

- 984.8 \rightarrow 984.85
 \searrow 984.75

(b) $984.75 \leq b < 984.85$ [2]

3. Round 162.645

(i) to 1 decimal place,

(i) 162.6 [1]

(ii) to 2 significant figures.

(ii) $160.$ [1]

4. Find p if $p^3 = 37$.

Give your answer correct to 2 decimal places.

$$p = \sqrt[3]{37} = 3.33222185$$

3.33 [2]

5. Write 2148 correct to the nearest 100

2100 [1]

6. Write 6819 to the nearest 1000

7000 [1]

7. Jim rounds a number, x , to one decimal place.

The result is 7.2

Write down the error interval for x .

$$7.2 \begin{matrix} \nearrow 7.25 \\ \searrow 7.15 \end{matrix}$$

$7.15 \leq x < 7.25$ [2]

8. $x = 2500$ to the nearest 100

Circle the smallest possible value of x .

$$2500 \begin{matrix} \nearrow 2550 \\ \searrow 2450 \end{matrix}$$

[1]

2449 2450 2495 2499

9. (a) Write 2187 correct to the nearest 10.

2190 [1]

(b) Write 54 478 correct to the nearest 1000.

$54,000$ [1]

10. Write 4.4354 correct to 2 decimal places

..... 4.44 [1]

11. Write the number 5689 correct to the nearest thousand.

..... 6000 [1]

12. The length, L cm, of a line is measured as 13 cm correct to the nearest centimetre.

Complete the following statement to show the range of possible values of L

..... 12.5 $\leq L <$ 13.5 [2]

13. Paul won a race with a time of 71.3 seconds.

This time, t , is to the nearest tenth of a second.

Complete the error interval due to rounding.

Answer 71.25 $\leq t <$ 71.35 [2]

CREDITS AND NOTES

Question	Awarding Body	Question	Awarding Body
1	OCR	13	AQA
2	OCR		
3	OCR		
4	OCR		
5	Pearson Edexcel		
6	Pearson Edexcel		
7	Pearson Edexcel		
8	AQA		
9	WJEC Eduqas		
10	Pearson Edexcel		
11	Pearson Edexcel		
12	Pearson Edexcel		

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.aqa.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, Practice set 1 and Practice set 2

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