Currency & Unit Conversion (F)

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

Name:	
Total Marks:	

1. Asif is going on holiday to Turkey.

   The exchange rate is £1 = 3.5601 lira.

   Asif changes £550 to lira.

   (a) Work out how many lira he should get.

   Give your answer to the nearest lira.

   .... lira [2]

Asif sees a pair of shoes in Turkey.

The shoes cost 210 lira.

Asif does not have a calculator.

He uses £2 = 7 lira to work out the approximate cost of the shoes in pounds.

(b) Use £2 = 7 lira to show that the approximate cost of the shoes is £60

[2]

(c) Is using £2 = 7 lira instead of using £1 = 3.5601 lira a sensible start to Asif's
   method to work out the cost of the shoes in pounds?
   You must give a reason for your answer.

   ....

   .... [1]

2. Mr Jones works for five days each week.

   If he uses his car to travel to work,

   each day he drive a total distance of 24.2 miles

   his car travels 32.3 miles per gallon of petrol

   petrol costs £1.27 per litre.

If he uses the bus to travel to work, he can buy a weekly ticket for £19.50

Use 1 gallon = 4.5 litres

Is it cheaper if he uses his car or the bus to travel to work?

You must show your working.

[5]

3. Change 4500g to kg.

.... kg [1]

4. Write 1.85 metres in centimetres.

.... cm [1]

5. Write 2086 grams in kilograms.

.... kg [1]

6. 1 yard is 36 inches.

   10 cm is an approximation for 4 inches.

   Work out an approximation for the number of cm in 2 yards.

.... [3]

7. How many centimetres are there in 3.7 metres?

   Circle your answer.

[1]

                0.037   0.37   37   370
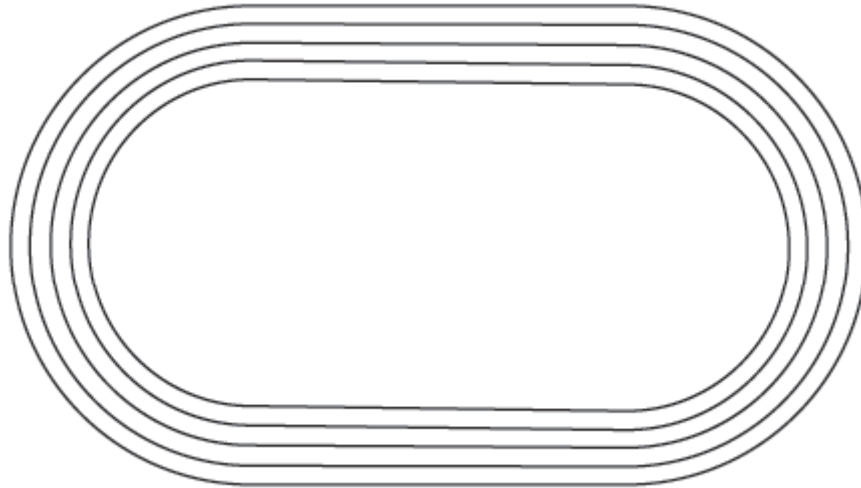
8. How many grams are there in 2.5 kilograms?

   Circle your answer.

[1]

                0.0025   250   2005   2500

9.

A single lap of an athletics track is 400 metres.

How many laps will a person run in a two kilometre race?

[2]

10. Change 530 centimetres into metres.

.... metres [1]

11. An American airline has a maximum size for bags on its planes.

The diagram shows the maximum dimensions.

Chris has a bag.

It has

height 50 cm

width 40 cm

depth 20 cm

1 inch = 2.54 cm

Can Chris take this bag on the plane?

You must show your working.

height
22 inches

width
14 inches

depth
9 inches

[3]

12. Three companies sell the same type of furniture.

The price of the furniture from Pooles of London is £1480
The price of the furniture from Jardins of Paris is €1980
The price of the furniture from Outways of New York is $2250

The exchange rates are
   £1 = €1.34
   £1 = $1.52

Which company sells this furniture at the lowest price?
You must show how you get your answer.

[3]

13. There are 1.5 litres of water in a bottle.

There are 250 millilitres of water in another bottle.

Work out the total amount of water in the two bottles.

[3]

14. 1 mile = 5280 feet

1 foot = 12 inches

1 inch = 2.54 cm

Use the given conversions to show that 1 mile is approximately 1600 metres.

[3]

15. The scale on a map is 1 : 200 000

Work out the number of kilometres represented by 2.5 cm on the map.

[2]

CREDITS AND NOTES

Question	Awarding Body	Question	Awarding Body
1	Pearson Edexcel	12	Pearson Edexcel
2	AQA	13	Pearson Edexcel
3	OCR	14	AQA
4	OCR	15	AQA
5	OCR		
6	Pearson Edexcel		
7	AQA		
8	AQA		
9	WJEC Eduqas		
10	Pearson Edexcel		
11	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