## Duration: 1 hour 45 minutes

This is the time permitted for the whole paper which has two sections.
Section 1 is worth 15 marks
Section 2 is worth 45 marks
Make sure you allow enough time for both sections.

## Section 1 - Non-calculator

Candidate name (first, last)
First $\square$


Candidate enrolment number
$\square$
Date of birth (DDMMYYYY)


Assessment date (DDMMYYYY) Centre number Candidate signature and declaration*

$\square$
*I declare that I had no prior knowledge of the questions in this assessment and that I will not share information about the questions.

You should have the following for this assessment:

- a pen with black or blue ink
- a pencil
- an eraser
- a 30 cm ruler
- a protractor.

You must NOT use a calculator for Section 1.


## General instructions

- Read through each question carefully.
- Write all your answers in this booklet.
- Check your calculations and check that your answers make sense.
- You must hand this section in before you can pick up your calculator to begin Section 2.

These materials are draft and subject to Technical Evaluation by Ofqual

## Section 1 - Non-calculator

There are 15 marks available in this section.
You should check all your work as you go along.
You must not use a calculator in this section.


Q1.
$4+3 \times 2=$

Q2.

```
25 =
```

Q3.

What is $\frac{2}{5}$ as a decimal?

Q4.
$-12+13=$
(tick one box)

A $\square$ 1

B $\square-1$
C $\square$25

D $\square-25$

Q5.
$60 \%$ of 300 g is
(tick one box)
A $\square$ $18 g$

B $\square$50 g

C $\square$ 180 g

D $\square 200 \mathrm{~g}$

Q6.

| 155 | 125 | 145 | 95 | 150 | 155 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 125 | 99 | 100 | 178 | 95 | 180 |

What is the range of these numbers?

Q7.
What is $\frac{1}{3}$ of 270 g ?

Q8.
This scale shows the probability that something will happen.


What probability does the scale show?
(tick one box)

A $\square$ impossible
B $\square$ certain

Cunlikely
D $\square$ likely

Q9.


What is the volume of this cube?

Q10.
$5 \frac{2}{5}$ is the same as


## Q11.

A customer wants to buy a coat in a clothes shop. The price ticket says $£ 45$
He has a voucher for $30 \%$ off the price of one item.

How much money will he get off the price of the coat?
$£$ $\qquad$

Q12.
A sandwich shop owner makes 1 sandwich with brown bread for every 4 sandwiches he makes with white bread.

Today he needs to make 600 sandwiches altogether.

How many sandwiches should he make with brown bread today?

## Q13.

Jon is a checkout assistant in a supermarket.
There are 5 checkouts and 5 assistants. The supervisor allocates the checkouts to the assistants randomly at the start of each day.

No one likes the checkout next to the door.

What is the probability that Jon will have the checkout next to the door today?
Give your answer as a fraction in its simplest form.

(1 mark)

Q14.
A van has a fuel tank that holds 60 litres when full.
This diagram shows the fuel gauge on the van.


Approximately how many litres of fuel are left in the tank? Give your answer in whole litres.
$\qquad$
(1 mark)

Q15.
A man puts $£ 3000$ into a savings account.
The savings account pays 5\% interest per year.

How much will the interest be for the first year?
$£$ $\qquad$
(1 mark)

End of Section 1.
When you have finished you MUST hand this booklet in to the invigilator before you can pick up your calculator to start Section 2.

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Level 1 Functional Skills Mathematics Sample paper 1

Duration: 1 hour 45 minutes

This is the time permitted for the whole paper which has two sections.
Section 1 is worth 15 marks
Section 2 is worth 45 marks

## Section 2 - Calculator

Candidate name (first, last)
First $\square$
Last $\square$
Candidate enrolment number
$\square$
Date of birth (DDMMYYYY)

Assessment date (DDMMYYYY)
Centre number
Candidate signature and declaration*

$\square$

- If you have used any additional answer sheets write the number of additional sheets in this box. $\square$
- Please ensure that you staple additional answer sheets to the back of this booklet, clearly labelling them with your full name, enrolment number, centre number and date in BLOCK CAPITALS.
- You must use a black or blue pen. You may use a pencil for charts and diagrams.
*I declare that I had no prior knowledge of the questions in this assessment and that I will not share information about the questions.

You should have the following for this assessment

- a pen with black or blue ink
- a pencil
- an eraser
- a 30cm ruler
- a protractor.



## You may use a calculator for Section 2.

## General instructions

- Read through each question carefully.
- Show your working out (where required).
- Write all your working out and answers in this booklet.
- Check your calculations and check that your answers make sense.
- There are additional pages at the back of this booklet if you run out of space or ask the invigilator if you need additional sheets of paper.


## Section 2 - Calculator

There are 45 marks available in this section.
You should check all your work as you go along.
You may use a calculator.


Q1.

Write eight hundred and seven thousand, two hundred and five in figures.

Q2.

What is 2043.666666 rounded to 2 decimal places?

Q3.

Which one of these nets will fold to make a cube?
(tick one box)

A


B


C


D

(1 mark)

Q4.
Which one of these fractions is the biggest number?
(tick one box)

A

$\frac{4}{10}$

B
 $\frac{3}{4}$

C

$\frac{2}{5}$
D
 $\frac{1}{3}$

## Q5.

Which one of the following lists is in decreasing order from the largest to the smallest?
(tick one box)
A $\square$ $252,080 \quad 252,300 \quad 250,900$

B $\square$ 252,080 250,900 252,300

C
 $252,300 \quad 252,080 \quad 250,900$

D $\square$ 252,300

250,900
252,080

Q6.
A customer wants to buy a sofa. The salesperson says he must pay a deposit.


Explain why the salesperson must have made a mistake.

## Explanation

Q7.
A gardener needs to put fertiliser on a piece of land.
The piece of land is a square with sides measuring 8 metres.
This formula shows how many grams of fertiliser she needs.

## grams of fertiliser needed $=$ length in metres $\mathbf{x}$ width in metres x 25

The gardener will measure the fertiliser out in kilograms.

What is the weight of fertiliser the gardener needs for the land in kilograms?

Show all your working.

Q8.
A shelf stacker is making a display in a shop. It is made from six identical boxes. Each box is a cube.


Which one of the shapes below is a side view (elevation) of the display from side $\mathbf{X}$ ?


The side view (elevation) from side X is Shape

Each box has sides measuring 0.5 m

Work out the area of this side of the display. Give units in your answer.

Show all your working.
$\qquad$

Q9.
A tourist wants to know how long it will take to walk to a museum.
This map shows the route - - - from the station to the museum.


The route measures 6.5 cm on the map.
It takes the tourist 10 minutes to walk a kilometre.

How long will it take him to walk to the museum from the station?
Give units in your answer.

Show all your working.

Q10.
A sales rep needs some cardboard boxes to store samples at work.
The office supplier has three different sized boxes.


| Box | Width | Length | Height |
| :---: | :---: | :---: | :---: |
| A | 35 cm | 35 cm | 55 cm |
| B | 40 cm | 40 cm | 40 cm |
| C | 30 cm | 60 cm | 30 cm |

Which box has the largest volume?
Explain your answer. Include figures to support your explanation.

## Answer

$\qquad$
Show all your working.

## Explanation

Q11.
A carpet fitter needs to order some fixing strips to hold the carpet all around the edges of this floor.


He can cut and join fixing strips.
Each pack has 8 metres of fixing strips.

Work out the number of packs of fixing strips he needs to order to go all round this floor.

Show all your working.

Q12.
A doctors' receptionist wants to put up a notice to show patients how long, on average, they will wait to see a doctor.

The table below shows how long past their appointment time patients at the surgery waited to see their doctor yesterday morning.

| Minutes waiting <br> (to the nearest minute) |  |  |
| :---: | :---: | :---: |
| 4 | 8 | 6 |
| 4 | 5 | 3 |
| 10 | 7 | 5 |
| 9 | 7 | 4 |

What was the average (mean) waiting time yesterday morning?

Show all your working.

Explain why the average for yesterday morning might not be a suitable waiting time to put on the notice.

## Explanation

Q13.
A customer wants to buy a washing machine. He wants to pay monthly. Some shops charge interest to pay monthly.

## Total amount customers will pay = price of item + total amount of interest

Two different shops have the washing machine he wants, on pay monthly deals.
In shop A, the price of the washing machine is $£ 450$.
The total amount of interest is $15 \%$ of the price of the item.
In shop B, the price of the washing machine is $£ 525$ with interest-free credit.
The total amount of interest is zero.

Work out in which shop the washing machine will be cheaper for the customer and by how much.

Show all your working.

Shop $\qquad$ is cheaper by $£$ $\qquad$

Q14.
This table shows the number of orders a sales person got in six months.

| Month | Number of orders |
| :--- | :---: |
| January | 150 |
| February | 155 |
| March | 170 |
| April | 160 |
| May | 180 |
| June | 200 |

Draw a line graph to show this information.


Explain what your graph shows about the number of orders.

## Explanation

## Q15.

Your boss needs to go to a meeting in London on Sunday.
He lives a half an hour drive from Stockport station.
He doesn't want to leave home too early.
The meeting starts at 14:00. It is in a hotel a 15-minute walk from the station in London.

This is the train timetable for Sunday.

| Sundays |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Manchester | 0920 | 1020 | 1035 | 1115 | 1135 | 1155 |
| Stockport | 0928 | 1029 | 1046 | 1124 | 1144 | 1205 |
| Stoke-on-Trent | 1000 | 1100 | 1115 | 1152 | 1214 | 1235 |
| London | 1206 | 1254 | 1257 | 1328 | 1347 | 1410 |

Work out the best train for your boss to catch.
Write down details of the journey from home to the hotel with times clearly for your boss.

Space for working.

Train $\qquad$
Journey details

Explain why you chose that train.

## Explanation

## End of Section 2

## Spare graph paper for Question 14

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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# Level 1 Functional Skills Mathematics Sample paper 1 

A City \& Guilds Group Business

Provisional mark scheme.

# Guidance notes for Sample Paper Mark Schemes Level 1 

## Notes for marking fixed response items:

Unless a whole number is specifically asked for, the markscheme gives credit for whole number answers with .0 or .00 on the end. Even though this is not a desirable level of accuracy, or indeed an expected answer, it is important that with only one mark available a candidate is not penalised for something that is not actually being tested. It is particularly important as, in the unlikely event of a candidate doing this, s/he would probably do it multiple times and lose a disproportionate number of marks.

## Notes for marking open response Problem Solving questions in Section 2:

The mark scheme has been carefully constructed to avoid penalising candidates repeatedly for similar errors.

1) The principle of follow through applies throughout unless otherwise stated. This allows the candidates to gain credit for subsequent correct calculation based on a previous incorrect answer. There is no follow-through between questions, but may be in multistage calculations within a question.
2) Units or numbers shown in brackets on the mark scheme are not required for the awarding of mark/s on the candidate's paper. However, if a candidate states units they must be correct:
eg 24(cm) means accept 24 cm or 24 but not 24 m
eg (£)72.5(0) means accept $£ 72.50$ or $£ 72.5$ or 72.50 or 72.5
3) Correct money format is expected in final answers unless otherwise indicated eg by brackets ie pounds must have two decimal places or no decimal places unless otherwise stated.
eg (£)5.00 or (£)5 not (£)5.0
eg (£)72.50 not (£)72.5
eg (£)37.43 not (£)37.432
4) URT means unrounded, rounded or truncated; the underlining defines the acceptable limit of approximation:
eg 860. 8652 URT ( U is the unrounded version)
the following are acceptable: 860 (T) or $861(\mathrm{R}) 860.8(\mathrm{~T})$ or $860.9(\mathrm{R})$ or $860.86(\mathrm{~T})$ or $860.87(R)$ or $860.865(R)$ or 860.8652 (U) but not eg 900 .

The $3^{\text {rd }}$ and $4^{\text {th }}$ columns of the mark schemes show the marks to be given for specific responses. Marks in bold are for fully correct answers. Where full marks are not achieved, examiners will award the marks that correspond to the responses given in the grey rows below. Any unforeseen but creditable responses are noted during the early stage of marking and are considered and, where appropriate, added to the mark scheme by the Chief Examiner when the mark scheme is finalised.

Where the marks are awarded for a complete correct method with one calculation error, examiners give the mark for a substantially correct solution with a single accuracy error or single (or consistent) early rounding, but not with a method error.

Maths Level 1 Sample paper 1: Section 1 - Non-calculator
For paper-based, examiners should accept correct answers given as words, including misspelt variants. Candidates must not lose marks for incorrect spelling.

| Question | Total marks | Marks | Marks awarded for |
| :---: | :---: | :---: | :---: |
| 1 | 1 | 1 | 10 or 10.0 or 10.00 |
| 2 | 1 | 1 | 625 or 625.0 or 625.00 |
| 3 | 1 | 1 | . 4 or 0.4 or . 40 or 0.40 or . 400 or 0.400 |
| 4 | 1 | 1 | A |
| 5 | 1 | 1 | C |
| 6 | 1 | 1 | 85 or 85.0 or 85.00 |
| 7 | 1 | 1 | 90 or 90.0 or 90.00 |
| 8 | 1 | 1 | D |
| 9 | 1 | 1 | 1000 or 1,000 or 1000 |
| 10 | 1 | 1 | 27 |
| 11 | 1 | 1 | 13.50 accept 13.5 or 13.500 |
| 12 | 1 | 1 | 120 or 120.0 or 120.00 |
| 13 | 1 | 1 |  |
| 14 | 1 | 1 | 15 or 16 accept 15.0 or $\mathbf{1 5 . 0 0}$ or 16.0 or 16.00 |
| 15 | 1 | 1 | 150 or 150.00 accept 150.0 |


| Maths Level 1 Sample paper 1: Section 2 - Calculator |  |  |  |
| :---: | :---: | :---: | :--- |
| For paper-based, examiners should accept correct answers given as words, including misspelt <br> variants. Candidates must not lose marks for incorrect spelling. |  |  |  |
| Question | Total <br> marks | Marks | Marks awarded for |

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|  |  | 4 | $\begin{aligned} & (£) 7.50 \\ & \text { or Shop A and }(£) 7.5 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  |  | 3 | (£)517.5(0) for the total cost in shop A or $(£) 75$ for difference in price and $(£) 67.5(0)$ or a complete correct method to find difference with a calculation error |
|  |  | 2 | (£)67.5(0) for interest seen for shop A |
|  |  | 1 | a correct method for finding $15 \%$ eg $\times 15 \div 100$ or x .15 or $10 \%$ and half of $10 \%$ or substitution of their amounts into the formula |
| 14 | 5 | 1 | suitable axes and scale to plot all the data |
|  |  | 1 | suitable title and labels eg Jan, Feb etc and Number of orders Note: consider labelling as a whole, eg title may be used to clarify vertical axis label |
|  |  | 2 | 6 plots correct $\pm 1$ small square (onscreen) / $\pm 1 / 2$ small square (paper) AND line joining them |
|  |  | 1 | 6 plots correct without a line joining them or at least 4 plots correct $\pm 1$ small square (onscreen) / $\pm 1 / 2$ small square (paper) AND line joining them |
|  |  | 1 | valid comment about pattern of sales eg Sales went up every month apart from April or Sales are (generally) increasing |
| 15 | 6 | 3 | choice of 1124 or 1046 trains with corresponding departure time from home and arrival at hotel <br> NOTE: Accept slightly earlier departure time from home, if justified |
|  |  | 2 | Choice of one of above with one calculation error in time of departure from home or arrival at hotel <br> or choice of 1029 train with corresponding departure and arrival times <br> or choice of 1144 train with corresponding departure and arrival times if justified <br> NOTE: Accept slightly earlier departure time from home, if justified |
|  |  | 1 | a suitable train selected (1124 or 1046) or departure time 30 minutes before and arrival time at hotel 15 minutes after incorrect train |
|  |  | 2 | times for departure, chosen trains and arrival at hotel clearly set out to convey the information to the boss in a table, structured list or other clear presentation |
|  |  | 1 | all information listed but not in a structured/clear presentation or a clear presentation of the information with one error or omission (eg of time to depart home) Train departure time from Stockport must be included for this mark. |
|  |  | 1 | valid reason for choice of train, eg 'it is the latest train that will get him there on time' or 'This train doesn't leave too early, but it gives him another one afterwards that will get him there in time if he misses the train' |

Total for Section 2
45 marks

## Example graph for Section 2 Question 14



