Level 1 Functional Skills Mathematics SAMPLE PAPER 2



Duration: 25 minutes

Total marks: 15

SECTION 1 – CALCULATOR NOT PERMITTED

First		
_ast		
Candidate enrolment number	Date of birth (DDMMYYYY)	
Assessment date (DDMMYYYY)	Centre number	Candidate signature and declaration

Please check that your name is correctly printed on the candidate barcode label. If not, please tell the invigilator before the start of the exam.

You should have the following for this assessment:

- a pen with black or blue ink
- a pencil (for diagrams, graphs and charts only)
- an eraser
- a 30cm 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.



SECTION 1 – CALCULATOR NOT PERMITTED

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.

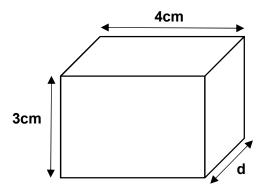


Q1

846.7 ÷ 100 =

(1 mark)

Q2 The volume of this cuboid is 24cm³.



What is the value for the depth d?

		(cm

(1 mark)

Q3

(1 mark)

Q4

$$18 - 5 \times 2 =$$

(1 mark)

Q5 С В Α D Which of the above has an angle of 180°? (tick one box) В C D (1 mark) Q6 Write two hundred and forty-six thousand eight hundred and five in figures (1 mark) Q7 What is $\frac{2}{5}$ as a decimal? (tick one box) 0.4 Α 0.2 C 0.25

(1 mark)

D

0.04

Q8	
- 6 + 4 =	
(tick one box)	
A -10	
B -2	
C 2	
D 10	
	(1 mark)
Q9	, ,
What is the range of these weights?	
40 kg 65kg 27kg 84kg 34kg	
	kg
	(1 mark)
	(Tinany
Q10 At a rugby match 19 417 home fans and 2 648 away fans attend.	
What is the total attendance, rounded to the nearest hundred?	
	///
	(1 mark)

Q11 A company conducts a survey. The survey asks people their ages. The data will be grouped.

Complete the table with the missing age groups.

Age group boundaries
25 and under
26 - 35
46 - 55
65 and over

(1 mark)

Q12 A manager wants to know the ratio of men to women in their factory. There are 135 men and 270 women working at the factory.

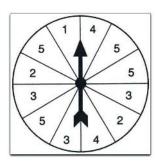
What is the ratio of men to women?

____:__

(2 marks)

Q13 A fair has a spin the arrow game.

A player wins a prize if the arrow lands on a 5.



What is the probability of a player winning a prize? Write your answer as a fraction in its simplest form.

(2 marks)

End of Section 1

Level 1 Functional Skills Mathematics SAMPLE PAPER 2



Duration: 1 hour 20 minutes

Total marks: 45

SECTION 2 – CALCULATOR PERMITTED

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First																	
Last																	
Candidate enrolment number Date of birth (DDMMYYYY)																	
Assessment date (DDMMYYYY) Centre number Candidate signature and declaration*																	
 If you have used any additional answer sheets write the number of additional sheets in this box. 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.																	

Please check that your name is correctly printed on the candidate barcode label. If not, please tell the invigilator before the start of the exam.

You should have the following for this assessment

- a calculator
- a pen with black or blue ink
- a pencil (for diagrams, graphs and charts only)
- an eraser
- a 30cm ruler
- a protractor.

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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 including graph paper 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 PERMITTED

There are 45 marks available in this section.

You should check all your work as you go along.

You may use a calculator.

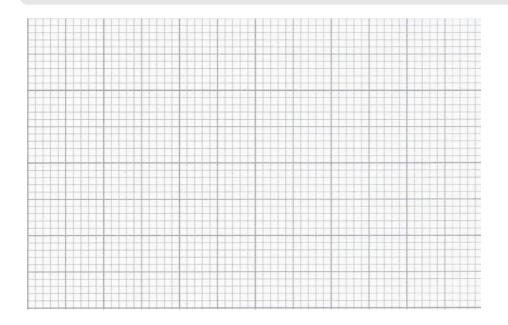


What is the mean of these numbers?

(1 mark)

Q2

Draw a square with sides of 2cm



(1 mark)

Q3

Write $\frac{33}{8}$ as a mixed number.

(1 mark)

Q4	
Which of the following lists is in increasing order from smallest to largest?	
(tick one box)	
A 52% 53% 50% 55%	
B 50% 52% 53% 55%	
C 55% 52% 53% 50%	
D 50% 53% 52% 55%	
(1 m	ark)
Q5	
140 x = 8400	
(1 m	ark)
Q6 A student states that 540cm is the same as 54m.	
Are they correct? Explain your answer.	
Are they correct? (tick one box) Yes No	
Explanation	

(1 mark)

Q7 The formula below can be used to calculate interest on a savings account after year:	rone
amount put into account x interest rate as a decimal	
A woman puts £2 500 into an account. The interest rate is 5%.	
What will be in the account after one year?	
Show your working	
£	 (3 marks
Q8 A taxi company charges £5 standing charge and £1.50 per mile for a journey.	
A man travels in a taxi for 12.2 miles.	
What is the cost of his journey?	
Show your working	
£	(3 marks

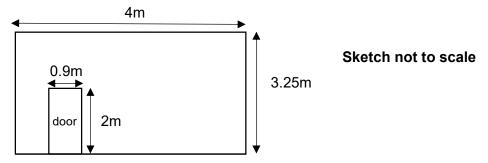
ŲЭ	A student receives	two loans. One	e is ioi £9 153	and the other is	101 £6 944.

Approximately $\frac{1}{2}$ of the loans will be spent on tuition fees and $\frac{1}{4}$ of the loans will be spent on accommodation.

Estimate the amount of money they will have left.	
Show your working	
	£

(4 marks)

Q10 A decorator is painting a room and has one wall left to paint. They have enough paint to cover 12m². The dimensions of the wall are shown below:



She will not paint over the door.

Do they have enough paint for the wall?	
Explain your answer. Use figures in your answer.	

Show your working
Do they have enough paint? (tick one box) Yes No
Explanation

(4 marks)

Q11 A local sports club organises a sponsored walk around the edge of a field.

Scale diagram of the field	50m ←
Field	

Each person will walk round the field 5 times.

How far will each person walk in kilometres?

Show your working	
	_
	km

(4 marks)

Q12	A cricket club sells 5,062 tickets for a charity match. 3,484 are Adult tickets and the rest are
	Under 18s tickets.

Ticket Prices	
Adults£18	
Under 18s£12	

85% of ticket sales pay for the event. The rest goes to community projects.

How much does the club give to community projects?

Show your working		
	£	

(5 marks)

Q13	A gardener	needs to	buy	compo	st to	fill	this	tub
-----	------------	----------	-----	-------	-------	------	------	-----

The diagram shows the dimensions of the tub

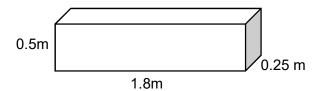


Diagram not to scale

They buy compost in 50 litre bags

How many bags of compost must they buy?

Show all your working	
Number of bags	

(5 marks)

Q14	20 students take a maths test.	Their tutor	records the scores.	The list below	shows
	their scores:				

15, 24, 6, 8, 29, 6, 12, 17, 24, 22, 25, 30, 18, 3, 11, 7, 18, 27, 28, 27	
Present these scores in three suitable groups	
	(2 marks)
Present this information in a suitable chart or graph.	
	There is
	spare graph
	paper on
	pg 21

(3 marks)

Q15 A school thinks their results are better than the national average.

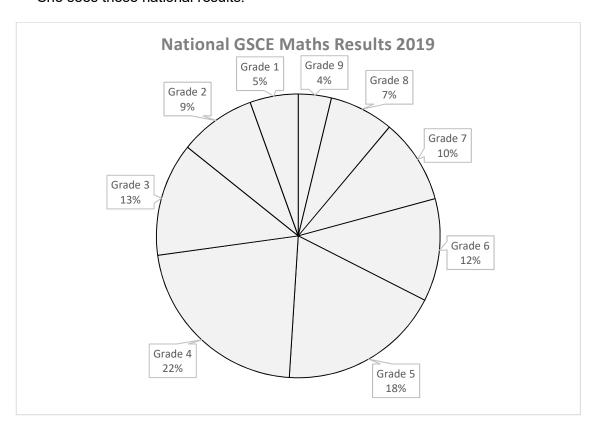
The school has a target for 65% of their students to achieve a Grade 4 or higher in their Maths GSCE.

A school governor uses this school table to check results.

School GSCE Maths Results 2019			
Grade	Number of Students		
9 - Highest	7		
8	11		
7	18		
6	22		
5	27		
4	55		
3	27		
2	22		
1 - Lowest	11		

She wants to compare her school's results with the national Maths GCSE results for Grade 4 and above.

She sees these national results.



She needs to write a report for the board of governors.

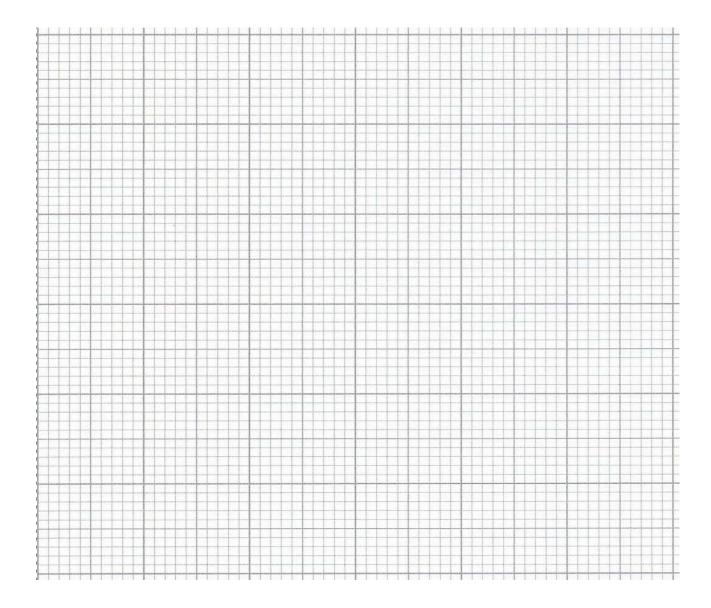
She says that the school has met its target **and** that its results are better than the national average.

Show all your working.	
Target met? (tick one box) Yes No	
Better than national average? (tick one box) Yes No	
Explanation	

Is the governor correct?
Explain your decisions. Show calculations to support your explanation.

(6 marks)

Spare graph paper for Question 14



End of Section 2