



Please write clearly in block capitals.

Centre number Candidate number

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

Functional Skills Level 2 MATHEMATICS

Paper 1 Non-Calculator

Time allowed: 30 minutes

Materials

For this paper you must have:

- mathematical instruments.

You must **not** use a calculator.



For Examiner's Use	
Question	Mark
1-5	
6	
TOTAL	

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 20.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.



J A N 2 2 8 3 6 2 1 0 1



FUNCTIONAL SKILLS ONLINE COURSES

- ✓ Your answers are analysed to determine your Current Level
- ✓ Suggested courses for you to enrol on based on your calculated level
- ✓ Always know the level you are currently working at
- ✓ Determine when you are ready to sit your exam

Recommendations

Based on your results from this initial assessment, we estimate you are currently at **Level 1.5**. From this diagnostic, we think one of the following courses would be suitable:

Functional Skills English Initial Assessment
English
13 Questions | No Time Limit
Start Initial Assessment

Functional Skills Maths Initial Assessment
Maths
25 Questions | Mixed Calculator | No Time Limit
Start Initial Assessment

Functional Skills Maths Level 2
35 Topic Count | 105 Tests
43 Mock Exams
Enrol Now

Pick my own

- ✓ Explainer videos on every topic
- ✓ Quick-fire style multiple choice questions
- ✓ Test your knowledge with exam-style questions
- ✓ Written solutions for all questions

Why do we write...

Practice Question 1 of 5
Calculation
 $76 + 113 = 189$

Selected the correct answer from the list below:
129
183
189
154

Addition and Subtraction (including decimals) Topic Test Instructions
These are practice questions for Addition and Subtraction (including decimals). They will get you to familiarise yourself with the format of the questions. These questions are intended to be used as a guide only. Please do not use them for your final exam.

Written Solution
 $76 + 113 = 189$

Course Completion %
View the completion percentage for the course.

6.44%

Using Numbers
16 TOPICS
27.08% Complete
Start Learning

Previous Results for Addition and Subtraction (including decimals)

ATTEMPT DATE	DIFFICULTY	RESULT
25/04/2022 15:39	Easy	80%
18/01/2022 14:01	Medium	20%

- ✓ See your progress through as you progress through each topic area
- ✓ Get your average scores for practice questions, topic tests and mock exams
- ✓ View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time

Or visit
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Section A

Do not write
outside the
box

Answer all questions in the spaces provided.

1 Circle the **largest** number.

[1 mark]

0.756

0.76

0.7

0.7516

2 Work out $22 - (7 - 5)^3$

[2 marks]

$$\begin{aligned} 22 - (7 - 5)^3 &= 22 - 2^3 \\ &= 22 - 8 \\ &= 14 \end{aligned}$$

Answer 14

3 Work out $\frac{5}{6} + \frac{1}{3}$

[2 marks]

$$\frac{1}{3} = \frac{2}{6}$$

$$\frac{5}{6} + \frac{2}{6} = \frac{7}{6}$$

Answer $\frac{7}{6}$

4 Work out $1.302 \div 6$

[2 marks]

$$\begin{array}{r} 217 \\ 6 \overline{) 1302} \\ \underline{12} \\ 10 \\ \underline{12} \\ 2 \\ \underline{12} \\ 0 \end{array}$$

$$1302 \div 6 = 217$$

$$1.302 \div 6 = 0.217$$

Answer 0.217

5 Write in digits twenty seven million, forty three thousand and sixty

[1 mark]

Answer $27,043,060$

8

Turn over ►



Section B

Do not write
outside the
boxAnswer **all** questions in the spaces provided.

6 Call centre

Troy works in a call centre.

6 (a) On Monday, Troy receives 15 phone calls.

The table shows information about the length of the phone calls.

Time, t (minutes)	Frequency	Midpoint	
$0 < t < 10$	4	5	20
$10 < t < 20$	3	15	45
$20 < t < 30$	6	25	150
$30 < t < 40$	2	35	70
Total = 15			285

Troy has a target to keep the average length of his phone calls to 20 minutes or less.

Does the estimated mean time of these phone calls meet his target?

You **must** show your working.

[4 marks]

$$4 \times 5 = 20$$

$$3 \times 15 = 45$$

$$6 \times 25 = 150$$

$$2 \times 35 = 70$$

$$20 + 45 + 150 + 70 = 285$$

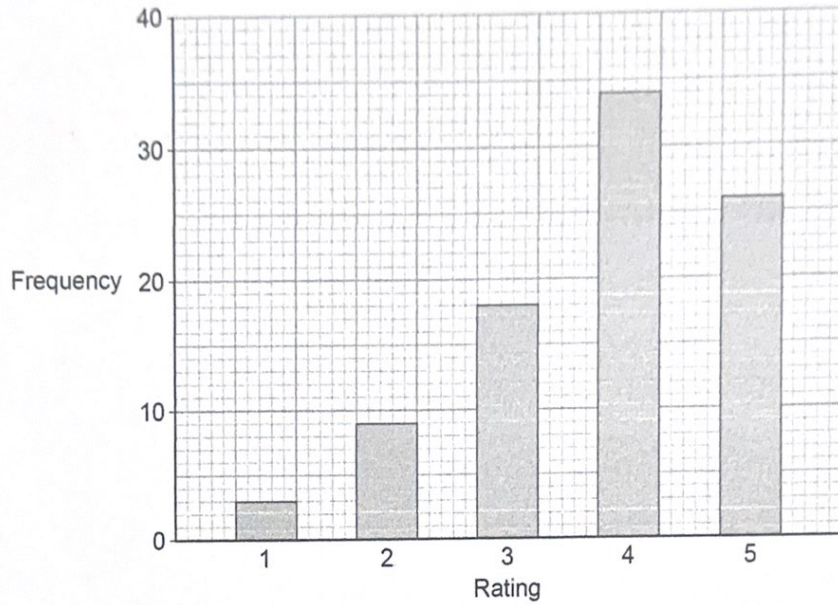
$$285 \div 15 = 19$$

$19 < 20$ so Troy does meet his target.



Do not write outside the box

- 6 (b) Customers are asked to rate their experience of the call centre from 1 to 5
The chart shows some ratings.



A rating of 1 or 2 is 'Poor'.

Work out the fraction of these ratings that were 'Poor'.

Give your answer in its simplest form.

[4 marks]

$$\begin{aligned} \text{Total number of ratings} &= \\ &3 + 9 + 18 + 34 + 26 = \\ &90 \end{aligned}$$

$$\begin{aligned} \text{Total number of poor ratings} &= \\ &3 + 9 = 12 \end{aligned}$$

$$\frac{12}{90} = \frac{2}{15}$$

÷ 6

Answer $\frac{2}{15}$

Question 6 continues on the next page

Turn over ►



- 6 (c) One year, Troy is paid a salary of £20 370
That year, he pays Income Tax on this salary at the rate below.

Do not write
outside the
box

Taxable income	Rate
Up to £12 570	0%
above £12 570	20%

Troy also pays £1296.24 in National Insurance.

Work out the **total** amount of Income Tax and National Insurance Troy pays that year.

[4 marks]

$$20370 - 12570 = 7800$$

$$7800 \times 0.2 = 1560$$

$$1560 + 1296.24 = 2856.24$$

$$\pounds 2856.24$$

Answer £ 2856.24

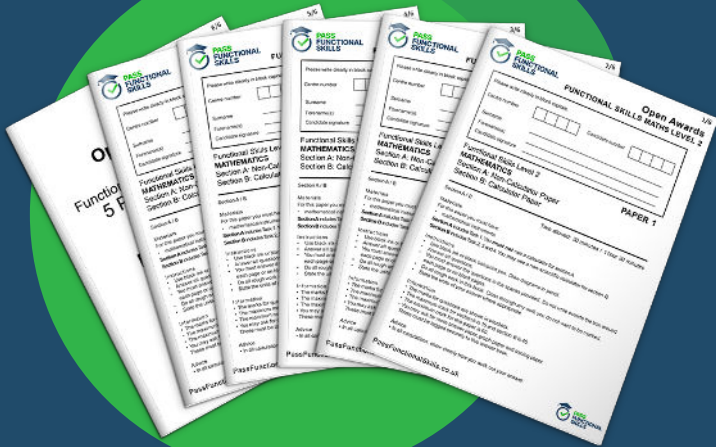
12

END OF QUESTIONS

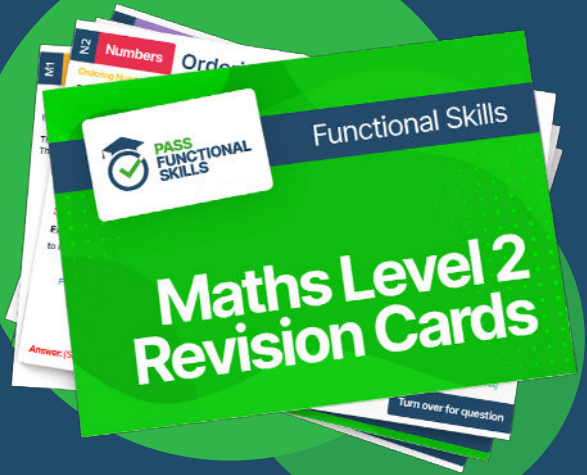




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