



Please write clearly in block capitals.

Centre number

| | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> |
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Candidate number

| | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> |
|----------------------|----------------------|----------------------|----------------------|----------------------|

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

IB/M/Jan22/E6

8362/1
QAN 603/4258/4



PASS
FUNCTIONAL
SKILLS

FUNCTIONAL SKILLS ONLINE COURSES

Functional Skills English Initial Assessment
English

Functional Skills Maths Initial Assessment
Maths

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 Maths Level 2**
 - 35 Topic Count
 - 105 Tests
 - 43 Mock Exams

Start Initial Assessment

Start Initial Assessment

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

Course Completion %

View the completion percentage for the course.

6.44%

Previous Results for Addition and Subtraction (including)

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

Using Numbers
16 TOPICS
27.08% Complete

Start Learning

- ✓ 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

Topic: Addition and Subtraction (including decimal) Topic Test Instructions

Question 2 of 6

1. Some students were asked about the number of hours they spent per week studying. Their answers are listed below.

2.8, 12.8, 15, 4.8, 9, 21.3

For 1, how many hours did most students spend studying?

Give your answer to 1 decimal place.

For 2, calculate the total area of the shaded region.

For 3, calculate the area of the triangle ABCD.

Area = $\frac{1}{2} \times 8 \times 10 = 40$ cm²

Total Area = $40 + 10 \times 8 + 10 \times 10 = 110$ cm²

Calculator

70 + 113 = 183

Select Practice Question Difficulty

Your answer: 183

Correct answer: 183

Incorrect: 179, 193, 198

Easy Mode

Medium Mode

Hard Mode

Written Solution

Written Solution

70 + 113 = 183

Report answer

- ✓ 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
passfunctionalskills.co.uk

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]

$$22 - (7 - 5)^3 = 22 - 2^3$$

$$= 22 - 8$$

$$= 14$$

Answer

14



0 2

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

[2 marks]

Do not write
outside the
box

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

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

Answer $\frac{7}{6}$ 4 Work out $1.302 \div 6$

[2 marks]

$$\begin{array}{r} 217 \\ \hline 6 \sqrt{1302} \\ \hline \end{array}$$

$$1302 \div 6 = 217$$

$$1.302 \div 6 = 0.217$$

Answer 0.217

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

[1 mark]

Answer 27,043,060

8

Turn over ►



0 3

Section B

Do not write
outside the
box

Answer 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 | |
|---------------------|------------|----------|-----|
| $0 \leq t < 10$ | 4 | 5 | 20 |
| $10 \leq t < 20$ | 3 | 15 | 45 |
| $20 \leq t < 30$ | 6 | 25 | 150 |
| $30 \leq t < 40$ | 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]

$$4 \times 5 = 20$$

$$3 \times 15 = 45$$

$$6 \times 25 = 150$$

$$2 \times 35 = 70$$

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

$$285 \div 15 = 19$$

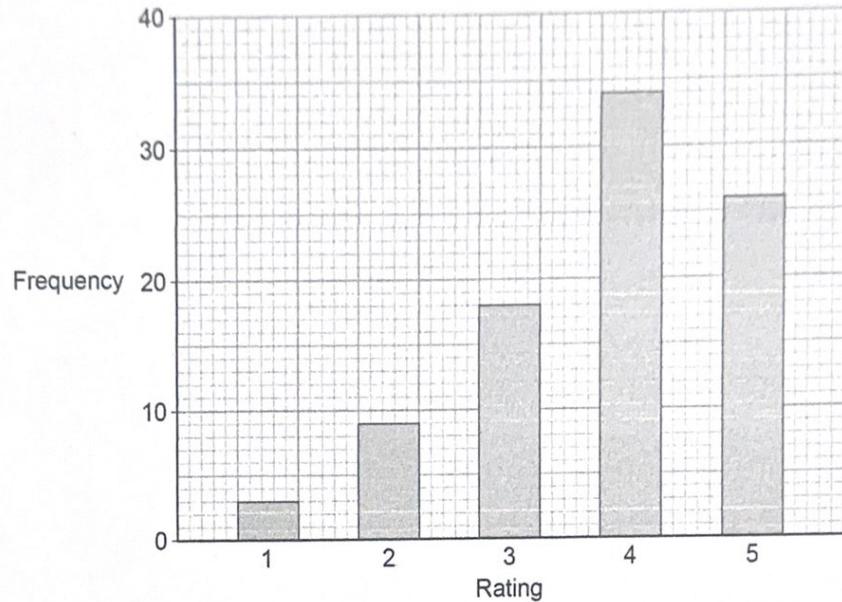
$19 < 20$ so Troy does meet his target.



0 4

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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]

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

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

$$\begin{aligned} \frac{12}{90} &= \frac{2}{15} \\ \frac{\cancel{12}}{\cancel{90}} &= \frac{2}{15} \\ \frac{2}{15} & \end{aligned}$$

Answer

$$\frac{2}{15}$$

Question 6 continues on the next page

Turn over ►



0 5

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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 this
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]

$$20370 - 12570 = 7800$$

$$7800 \times 0.2 = 1560$$

$$1560 + 1296.24 = 2856.24$$

£ 2856.24

Answer £ 2856. 24

12

END OF QUESTIONS



Do not write outside the box

| Question number | Additional page, if required. Write the question numbers in the left-hand margin. |
|--------------------|--|
| | |

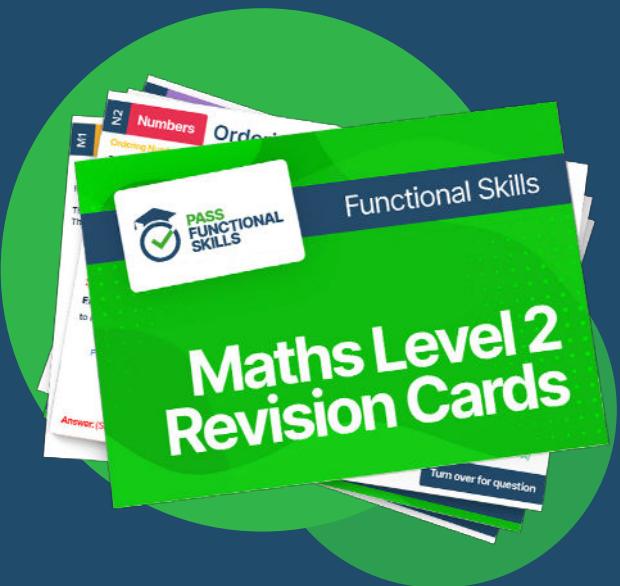




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