



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

\_\_\_\_\_

Forename(s)

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Candidate signature

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I declare this is my own work.

# Functional Skills Level 2 MATHEMATICS

## Paper 1 Non-Calculator

Monday 9 January 2023

Morning

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	
<b>TOTAL</b>	

### 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 3 0 3 6 2 1 0 1

IB/M/Jan23/E4

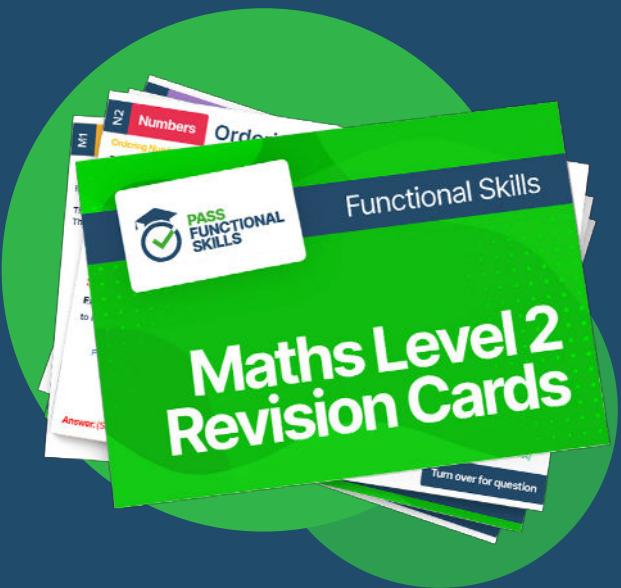
8362/1  
QAN 603/4258/4



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## Section A

Do not write  
outside the  
box

Answer all questions in the spaces provided.

1 Round 2356 to the nearest 500

[1 mark]

$$2356 - 2000 = 356 \quad 2500 - 2356 = 144$$

Answer 25002 Work out the value of  $\frac{3}{10} + \frac{1}{100}$  as a decimal.

Circle your answer.  $\frac{30}{100} + \frac{1}{100} = \frac{31}{100}$

[1 mark]

0.004

0.31

0.4

3.1

3 Share 192 in the ratio 5 : 1

[2 marks]

$$192 \div (5+1) = 32$$

$$32 \times 5 = 160$$

Answer 160 : 32

0 2

4 Work out  $7 + 3 \times 4^2$ 

[2 marks]

$$7 + 3 \times 4 \times 4$$

$$7 + 48 = 55$$

Answer 55Do not write  
outside the  
box5 The exterior angle of a polygon is  $72^\circ$ 

Work out the interior angle.

[2 marks]

$$180 - 72 = 108$$

Answer 108 °

8

Turn over ►



0 3

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## Section B

Do not write  
outside the  
box

Answer all questions in the spaces provided.

## 6 Cheese

Jana makes cheese.

## 6 (a) On Tuesday, Jana made

 $2\frac{7}{8}$  kg of cheese in the morning

and

 $1\frac{1}{4}$  kg of cheese in the afternoon.

Jana says,

"I made more than 4 kg of cheese on Tuesday."

Is she correct?

You must show your working.

[3 marks]

$$\begin{aligned}
 2\frac{7}{8} + 1\frac{1}{4} &= \frac{23}{8} + \frac{5}{4} \\
 &= \frac{23}{8} + \frac{10}{8} \\
 &= \frac{33}{8} \\
 &= 4\frac{1}{8} > 4 \quad \text{so yes she is}
 \end{aligned}$$

correct.

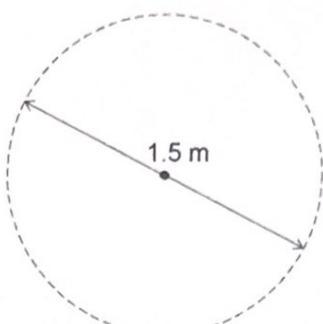
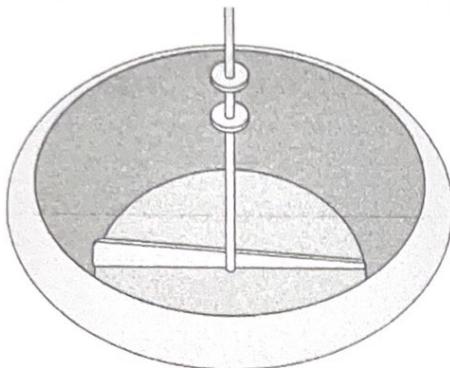


0 4

IB/M/Jan23/8362/1

6 (b) The cheese is mixed using a straight paddle that is 1.5 metres long.  
The paddle is fixed at the centre and moves in a circle.

Do not write  
outside the  
box



Not drawn  
accurately

The end of the paddle completes one full rotation every 5 seconds.

Work out the speed of the end of the paddle.

Use  $\pi = 3.14$

[4 marks]

$$1.5 \times \pi = 4.71$$

$$4.71 \div 5 = 0.94$$

Answer 0.94 metres per second

Turn over ►



0 5

IB/M/Jan23/8362/1

6 (c) Jana makes 120 pieces of cheese.

Of these 120 pieces

75% are strong

one third are soft

57 are strong and hard.

Jana chooses one of the pieces at random.

Work out the probability that the piece is **mild, soft** cheese.

You may use the table to help you.

[5 marks]

	Soft	Hard	Total
Strong	33	57	90
Mild	7		30
Total	40	80	120

see table

$$120 \div 4 \times 3 = 90 \text{ strong}$$

$$120 \div 3 = 40 \text{ soft}$$

$$90 - 57 = 33$$

$$40 - 33 = 7$$

probability cheese is soft and mild  $\frac{7}{120}$

Answer

$$\frac{7}{120}$$

12

END OF QUESTIONS



0 6

# FUNCTIONAL SKILLS ONLINE COURSES

The screenshot shows the 'Functional Skills English Initial Assessment' and 'Functional Skills Maths Initial Assessment' sections. Each section includes a 'Start Initial Assessment' button and a 'Pick my own' button. The English section also displays a 'Recommendations' box stating: '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'.

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

The screenshot shows the 'Course Completion %' section with a completion percentage of 6.44% and a 'Using Numbers' topic section showing 27.08% completion and a 'Start Learning' button. Below these are 'Previous Results for Addition and Subtraction (including)' tables for two attempts: one on 25/04/2022 at 15:39 with an easy difficulty and 80% result, and another on 18/01/2022 at 14:01 with a medium difficulty and 20% result.

- ✓ 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

The screenshot shows a math practice question titled 'Why do we write?' with a diagram of a trapezoid and a question asking for its area. The question is part of a 'Topic Test' for 'Addition and Subtraction (including decimal)'. It includes a 'Select Practice Question Difficulty' section with 'Easy Mode' selected, and a 'Written Solutions' section showing the calculation  $70 + 113 = 183$ .

- ✓ 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

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