AQA

Functional Skills Level 2 MATHEMATICS

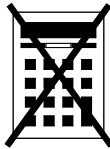## Paper 1 Non-Calculator

Monday 9 January 2023   Morning   Time allowed: 30 minutes

Materials
For this paper you must have:
* mathematical instruments.
You must **not** use a calculator.

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.

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

Section A

Answer **all** questions in the spaces provided.

1 Round 2356 to the nearest 500

[1 mark]

Answer _____

2 Work out the value of $\dfrac{3}{10} + \dfrac{1}{100}$ as a decimal.

Circle your answer.

[1 mark]

0.004   0.31   0.4   3.1

3 Share 192 in the ratio 5 : 1

[2 marks]

Answer _____ : _____

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

[2 marks]

Answer _____

5 The exterior angle of a polygon is 72°

Work out the interior angle.

[2 marks]

Answer _____ °

8

Turn over ▶

Section B

Answer **all** questions in the spaces provided.

6   **Cheese**

Jana makes cheese.

6 (a)   On Tuesday, Jana made

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

and

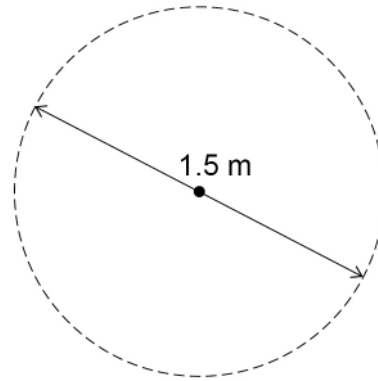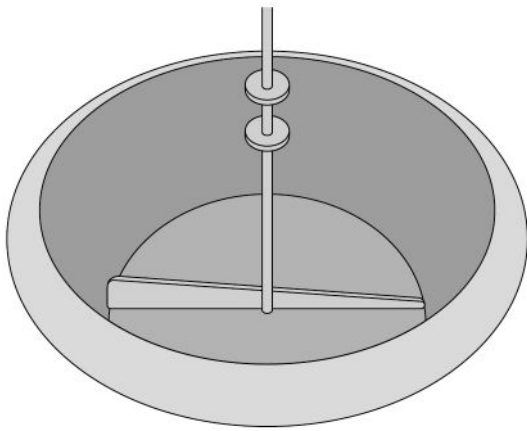$1\dfrac{1}{4}$ kg of cheese in the afternoon.

Jana says,

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

Is she correct?
You **must** show your working.

[3 marks]

_____

_____

_____

_____

_____

_____

_____

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.

Not drawn accurately

1.5 m

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]

Answer _____ metres per second

Turn over ▶

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		57	
Mild			
Total			120

Answer _____

END OF QUESTIONS

12

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ANSWER IN THE SPACES PROVIDED

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

08

Question number	Additional page, if required. Write the question numbers in the left-hand margin.
09	

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ANSWER IN THE SPACES PROVIDED**

Do not write outside the box