AQA

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

Tuesday 28 February 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 | |
| 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.

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IB/M/Mar23/E7

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QAN 603/4258/4

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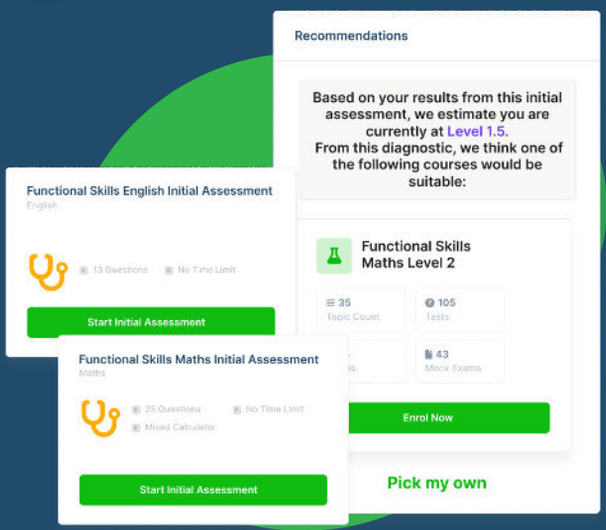
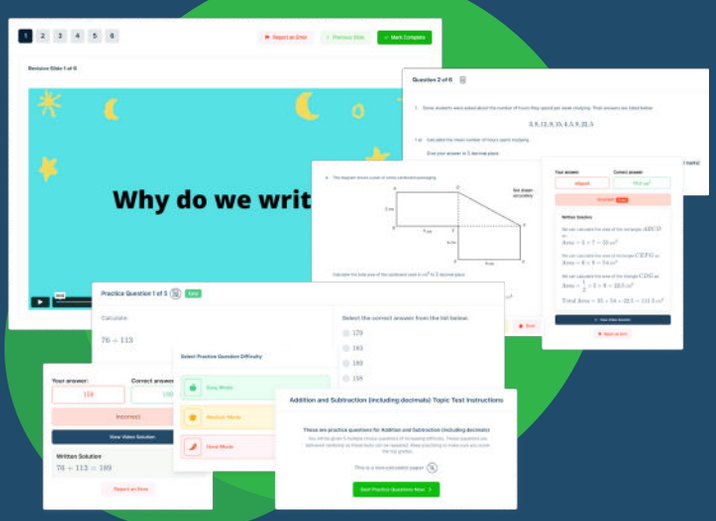
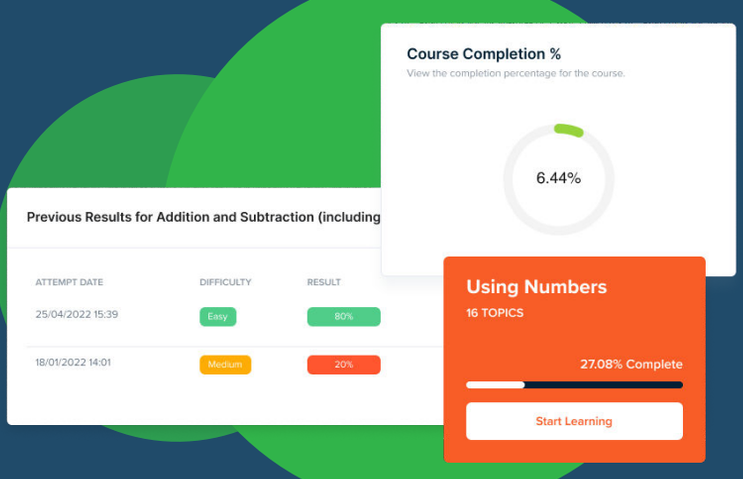
# FUNCTIONAL SKILLS ONLINE COURSES




- 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

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




- 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**

Do not write outside the box

## Section A

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

**1** Here are six numbers.

10 13 13 14 15 18 21

Work out the median.
Circle your answer.

**[1 mark]**

11 13 14 15

**2** Work out $(7 + 3)^2 - 6 \times 4$

**[2 marks]**

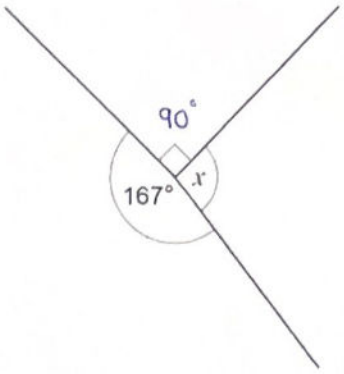
$(10)^2 - (24) = 100 - 24$

$= 76$

Answer 76

Do not write outside the box

**3** Work out the size of angle $x$.




Not drawn accurately

**[2 marks]**

$167 + 90 + x = 360$ angles in circle sum to 360

$x = 360 - 167 - 90$

$= 103$

Answer $x = 103$ °

**Turn over for the next question**

Do not write outside the box

**4** Work out $3.762 \div 9$

**[2 marks]**

$$9\overline{)3.^{3}7^{7}6^{7}2} \quad 0.418$$

Answer 0.418

**5** The probability of an event happening is 83%

What is the probability of the event **not** happening?

**[1 mark]**

100 - 83 = 17

Answer 17 %

8

Do not write outside the box

## Section B

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

**6** **Fudge**

Calvin is making fudge.

**6 (a)** A recipe needs 9 ounces of butter to make 30 pieces of fudge.

Calvin wants to make 40 pieces.

He has 175 grams of butter.

How much **more** butter does he need?
Give your answer in **grams**.

Use 1 ounce = 25 grams

**[5 marks]**

9 ÷ 30 = 0.3 ounces for 1 piece of fudge

0.3 x 40 = 12 ounces for 40 pieces of fudge

12 x 25 = 300 grams

300 - 175 = 125 grams

Answer 125 grams

**Question 6 continues on the next page**

Do not write outside the box

**6 (b)** Calvin makes the 40 pieces of fudge.

He covers

14 of the pieces in white chocolate

the remaining pieces in milk chocolate.

What fraction of the pieces does he cover in **milk** chocolate?
Give your answer in its simplest form.

**[3 marks]**

$40 - 14 = 26$

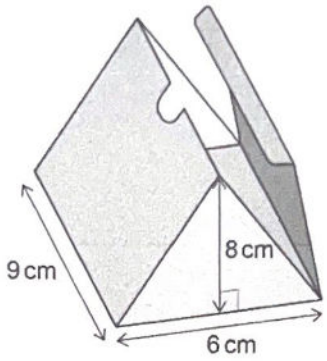
$\frac{26}{40} = \frac{13}{20}$

Answer $\frac{13}{20}$

Do not write outside the box

**6 (c)** Calvin puts some of the fudge into a gift box.

The box is a triangular prism.




To work out the volume of the box, he follows these steps.

**Step 1** Work out the area of the triangular face.

**Step 2** Multiply the answer to **Step 1** by the length of the box.

For this box, each piece of fudge needs $10\,cm^3$ of space.

How many pieces of fudge can Calvin fit in the box?

**[4 marks]**

Triangular face area : $A = 6 \times 8 \div 2$

$= 24\,cm^2$

Volume $= 24 \times 9$

$= 216\,cm^3$

$216 \div 10 = 21.6$

so can fit 21 pieces of fudge in box

Answer 21

12

**END OF QUESTIONS**