

NCFE Level 2 Functional Skills Qualification in Mathematics (603/5060/X)

Paper number: P001260
Section A: Non-calculator Test



Time allowed: 30 minutes

Learner instructions

- Answer **all** questions.
- Read each question carefully.
- Write your answers in the spaces provided.
- Show your working, as marks may be awarded for working.
- State units in your answers, where appropriate.
- Check your work.

Learner information

- Section A contains **Activity 1** only.
- The maximum mark for this section is **15**.
- The marks available for **each** question are shown in brackets.

To be completed by the examiner		Mark
A	Activity 1	/ 15
B	Activity 2	/ 15
	Activity 3	/ 15
	Activity 4	/ 15
TOTAL MARK		/ 60

Resources

You will need a:

- pen, with black or blue ink
- pencil and eraser
- 30 cm ruler
- protractor.

If extra pages are used, please make sure your name and centre name are on them and they are securely fastened to this booklet.

Please complete the details below clearly and in **BLOCK CAPITALS**.

Learner name _____

Centre name _____

Learner number

Centre number

Do not turn over until the invigilator tells you to do so.



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

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

Functional Skills Maths Initial Assessment
Maths
25 Questions Mixed Calculator
Start Initial Assessment

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
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
 $76 + 113 = 189$

Question 2 of 5
Select the correct answer from the list below:
129
183
189
194

Written Solution
Total Area = $35 \times 54 + 225 + 144 \text{ m}^2$

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

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

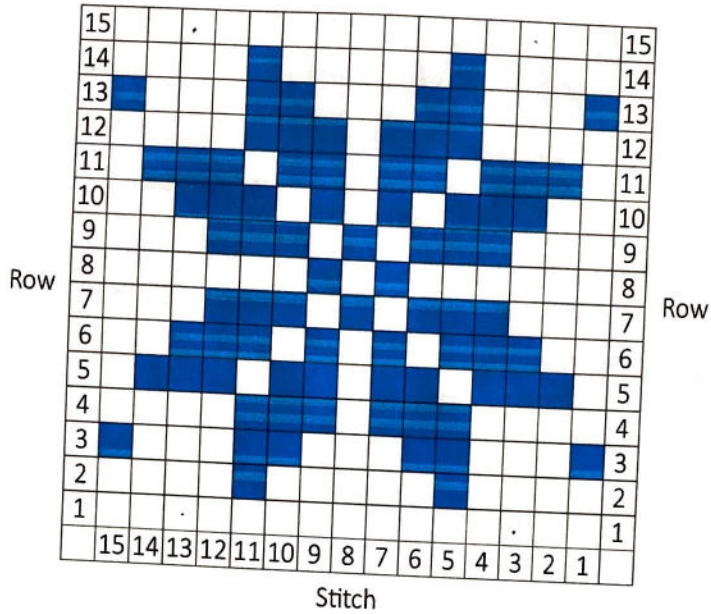
- ✓ See your progress through as you progress through each topic area
- ✓ Get your average scores for practice questions, topic tests and mock exams
- ✓ View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time

Or visit
passfunctionalskills.co.uk

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Past Paper

1 (b) Here is a different knitting chart.



This chart tells knitters what colour wool to use for each stitch in the pattern.

Joti changes the chart.

She adds four more blue stitches to give the pattern four lines of symmetry.

Write down the coordinates of the four blue stitches Joti adds.

[2 marks]

Your answer:

Stitch	<u>3</u>	Row	<u>1</u>
Stitch	<u>3</u>	Row	<u>15</u>
Stitch	<u>13</u>	Row	<u>1</u>
Stitch	<u>13</u>	Row	<u>15</u>

1 (c)

Gavin goes to Joti's shop.

He is making a circular blanket.

The finished blanket will have a radius of 0.325 m

It will have ribbon all around the edge.

He thinks he will need 2.5 m of ribbon.

Gavin knows that π is about 3.1416

Round π to **1 decimal place** and **use this value** to work out how much ribbon Gavin will have left if he buys 2.5 m



[4 marks]

$$\pi \approx 3.1$$

$$2 \times 3.1 \times 0.325 = 2.015 \text{ m}$$

$$2.5 - 2.015 = 0.485 \text{ m}$$

Your answer:

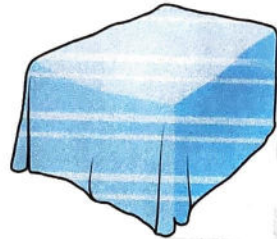
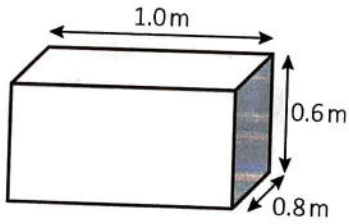
0.485

m



- 1 (d) Sheba also goes to Joti's shop.

She is knitting a rectangular cover for a large storage box.



Calculate the length and width of the cover required to cover the box, as shown in the diagram.

[2 marks]

$$1 + 0.6 + 0.6 = 2.2\text{m.}$$

$$0.8 + 0.6 + 0.6 = 2.0\text{m.}$$

Your answer:

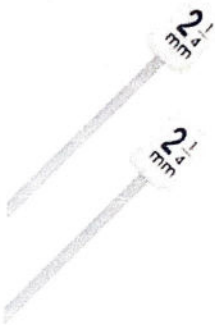
2.2 , 2.0 m

1 (e)

Knitting needles are long, thin cylinders with a point at one or both ends.

The size of a knitting needle is the diameter of the cylinder in mm

For example, these needles have a diameter of $2\frac{1}{4}$ mm



Calculate the difference in diameter between $6\frac{1}{2}$ mm needles and $3\frac{3}{4}$ mm needles.

Give your answer as a mixed number.

[1 mark]

$$6\frac{1}{2} = \frac{13}{2} = \frac{26}{4}, \quad 3\frac{3}{4} = \frac{15}{4}$$

$$\frac{26}{4} - \frac{15}{4} = \frac{11}{4} = 2\frac{3}{4}$$

Your answer:

$$2\frac{3}{4}$$

mm



1 (f)

The old world record for the longest knitting needles was 3.98 m

The new world record is 11% longer.

What is the new world record for the longest knitting needles?



Give your answer in m

[2 marks]

$$3.98 \text{ m} \times 1.11 = 4.4178 \text{ m}.$$

Your answer:

4.4178 m

- 1 (g) The relative thickness of wool can be described using improper fractions.
Put these improper fractions in order of size, starting with the smallest.

$$\frac{3}{2} \quad \frac{7}{4} \quad \frac{5}{3}$$

[2 marks]

1.5, 1.75, 1.66

Your answer:

$$\frac{3}{2}, \frac{5}{3}, \frac{7}{4}$$

- 1 (h) Joti and her friends knit squares to make patchwork blankets.

It takes 4 people 20 days to knit enough squares for one blanket.

How long would it take 8 people if they knit at the same rate?



[1 mark]

$$\frac{4 \times 20}{8} =$$

Your answer:

10

days

[Total marks: 15]

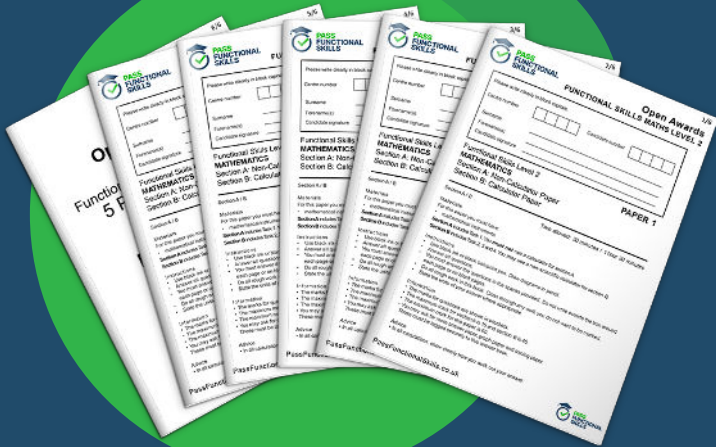
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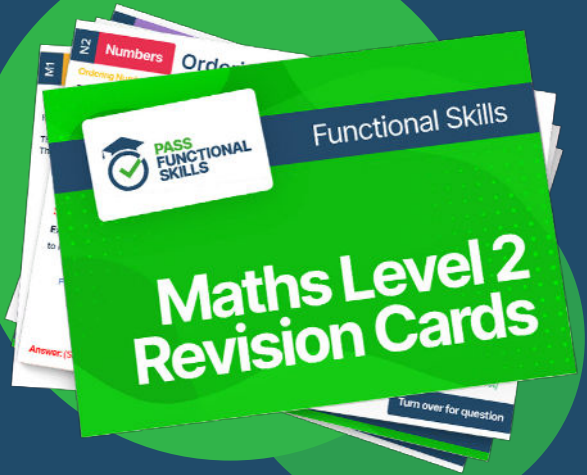
Past



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