



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

Paper number: Practice P001270
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.

Resources

You will need a:

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

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

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.



PASS
FUNCTIONAL
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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. How many students had 10 hours or more of study time? Give your answer to 1 decimal place.

8.8, 12.8, 15.4, 8.9, 21.3

2. Calculate the area of the shaded region.

For draw a line from the origin to the point (4, 0) and draw a line from (4, 0) to (0, 3). The area is a right-angled triangle.

Calculate the total area of the shaded region to 2 decimal places.

3. Calculate the area of the triangle ABCD.

Area = $\frac{1}{2} \times 8 \times 10 = 40 \text{ cm}^2$

4. Calculate the area of the triangle CDEF.

Area = $\frac{1}{2} \times 8 \times 10 = 40 \text{ cm}^2$

Total Area = $40 + 40 = 80 \text{ cm}^2$

Calculator

70 + 113 = 189

Select Practice Question Difficulty

Your answer: 189

Correct answer: 189

Incorrect: 179, 193, 188, 199

Easy Mode

Medium Mode

Hard Mode

Written Solution

Written Solution: $70 + 113 = 189$

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

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Activity 1: Buying and selling

- 1 (a) Hannah wants to make some money by buying items at a car boot sale, and then selling them.

The table shows the items that Hannah has recently bought, and then sold.

She records the profit (+) or loss (-) that she made on each item.

Item	Profit or Loss
Blue bowl	+£2.85
China dog	-£5.35
Set of teaspoons	+£4.95
Small table	-£4.25
Lamp	+£2.70

What was the total profit or loss that Hannah made when she sold these items?
Give your answer in £

[2 marks]

$$2.85 - 5.35 + 4.95 - 4.25 + 2.70$$

=

Your answer:

£ 0.90 Profit

or

£ Loss

Please turn over

1 (b) Hannah goes to another car boot sale to sell some items.

She paid £155 for the items she hopes to sell.

How much will Hannah need to sell these items for to make a 17.5% profit?

[3 marks]

$$\text{£155} \times 1.175 =$$

	1	0.1	0.07	0.005
100	100	10	7	0.5
50	50	5	3.5	0.25
5	5	0.5	0.35	0.025

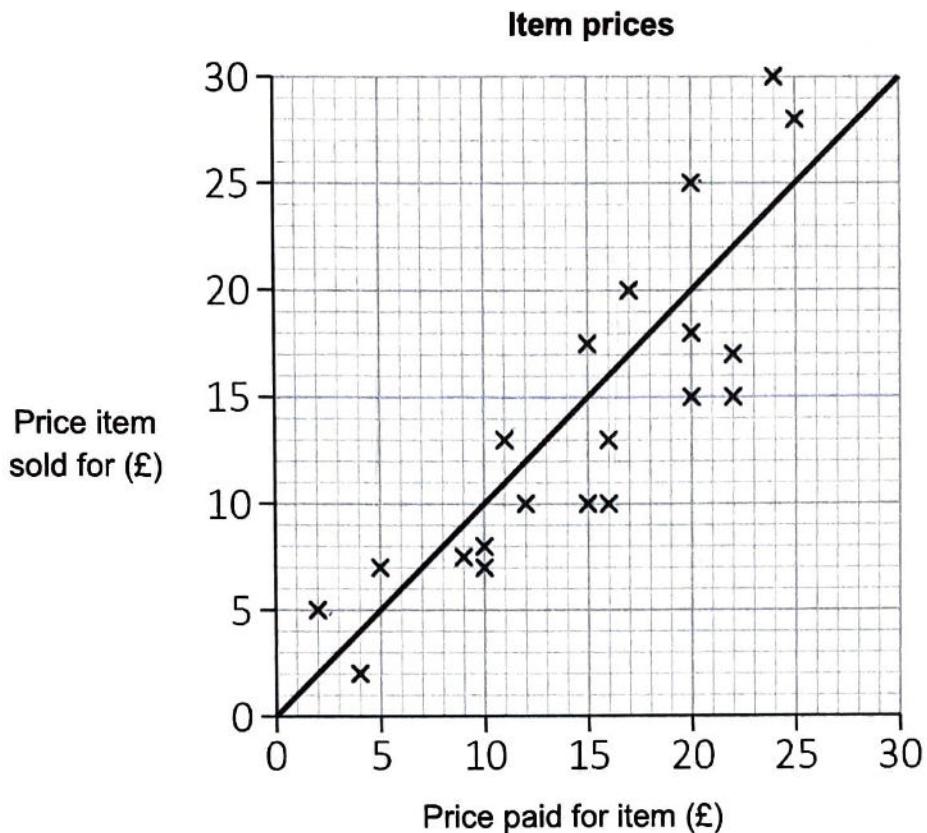
$$\begin{array}{r} 100 \\ 50 \\ 5 \\ 7 \\ 3.5 \\ 0.35 \\ 0.25 \\ \hline 182.125 \end{array}$$

Your answer:

£ 182.13

- 1 (c) Hannah takes some items to a market to sell.

The scatter diagram shows the price Hannah paid for each item, and the amount she sells it for.



The line drawn on the scatter diagram marks the prices where Hannah makes no profit or loss.

Hannah thinks she made a profit on more than half of her items.

Is she correct? Explain your answer.

[2 marks]

$$\frac{8}{20} = \frac{2}{5} < \frac{1}{2}.$$

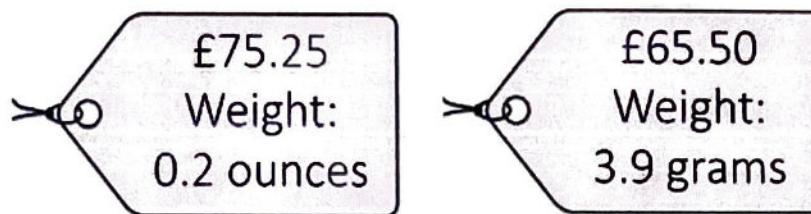
No.

Your answer:

No, she is not correct.

Please turn over

1 (d) Hannah buys two gold necklaces.



She sees an advert online offering to buy jewellery.

CashForYou

Post us your old gold jewellery.
We pay £18 per gram of gold.

If Hannah sends both necklaces to **CashForYou**, will she make a profit?
Show your working.

Use the conversion: 1 ounce = 28 grams (g)

[3 marks]

$$0.2 \text{ oz} = 5.6 \text{ g}.$$

$$5.6 \text{ g} \times £18/\text{g} = £100.80$$

$$3.9 \text{ g} \times £18/\text{g} = £70.20.$$

£171 total made from CFY.

$$£75.25 + £65.50 = £140.75.$$

Yes, she makes a profit.

Your answer:

Yes.

1 (e)

Hannah wants to know how much money she might get for a toy car if she sells it on an online auction website.

She finds that the same make of toy car has been sold for different prices.

Price paid on online auction website	Number of toy cars sold
£0 - £9.99	6
£10 - £19.99	5
£20 - £29.99	6
£30 - £39.99	3

Use the data to calculate the estimated mean price paid for the toy car on the online auction website.

[3 marks]

$$\begin{aligned}
 & (\text{£}5 \times 6) + (\text{£}15 \times 5) + (\text{£}25 \times 6) + (\text{£}35 \times 3) \\
 &= \text{£}30 + \text{£}75 + \text{£}150 + \text{£}105 \\
 &= \text{£}360.
 \end{aligned}$$

$$6 + 5 + 6 + 3 = 20.$$

$$\frac{\text{£}360}{20} = \text{£}18 \text{ (average)}$$

Your answer:

£ 18 .

Please turn over

- 1 (f) The probability that Hannah makes a profit when she sells any item at an online auction is 0.8

What is the probability that **neither** of the next two items she sells at an online auction makes a profit?

[2 marks]

$$0.2 \times 0.2 = 0.04$$

Your answer:

0.04

[Total marks: 15]

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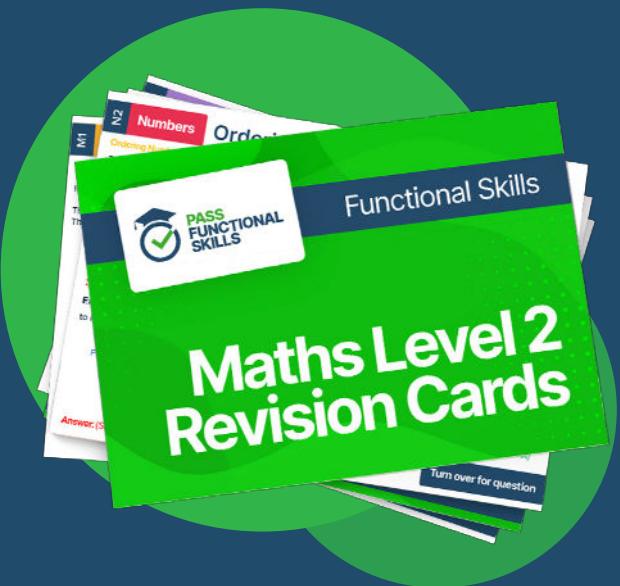
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