

NCFE Level 1 Functional Skills Qualification in Mathematics (603/5055/6)

Paper number:	P001255
Section B:	Calculator Test



Time allowed: 1 hour 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 B contains Activities 2, 3 and 4.
- The maximum mark for this section is 45.
- 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
- calculator.

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.



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- 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
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- 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
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Activity 2: Hens and eggs

2 (a) Sadie wants to keep hens in her garden.

She finds this information about some different types of hens.

Type of hen	Numbers of eggs per year		
Buff Orpington	280		
Rhode Island Red	260		
Leghorn	270		
Plymouth Rock	120		
Speckled Sussex	250		

Calculate the range in the numbers of eggs per year.

[1 mark]

280-120 = 160)
Your answer:	160

Sadie sees these hen houses.



Which hen house will be cheaper after the discount?

Show how you decide.

[4 marks]

The majeshic:

$$60S \neq 100 \times 70 = E423.50$$

The classic:
 $636 \neq 3 \times 2 = E424$
The majeshic will be cheaper
Your answer: The majeshic

2 (c) Sadie wants to put fencing around an area of grass where the hens can run about safely.

She has 22 m of fencing.

She reads that the minimum area for each hen to run about safely is 1.5 m²

Sadie decides to make a square area of grass.

What is the greatest number of hens she could keep?

[4 marks]

22: 4 = 5.5 m per side of Square Area = 5.5 + 5.5 = 30.25 m² 30.25 - 1.5= 20.166 ... So she can keep 20 hers 00 hens Your answer:

Please turn over

2 (d) Sadie buys 10 hens. She reads that, if the then the hens are hap She reads that, if the mean number of eggs per hen per year is 250 or more, then the hens are happy and healthy.

Sadie records how many eggs her 10 hens lay in the first 6 weeks.

The table shows her results:

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
46	48	55	43	52	53

Using these figures, Sadie thinks that her hens are happy and healthy.

Is Sadie correct?

Show how you decide.

[4 marks]

Mean per week 26
= 49.5
Mean per week per hen = $49.5 \div 10$ = 4.95
Mean per year per hen = 4.95+52 = 257.4
So yes, Sadie is correct
Your answer: Yes .

PassFunctionalSkills.co.uk Activity 3: Decorating

Decorating

Chester is decorating some of the rooms in his house. 3 (a)

He needs to know the area of a window.

The window measures 3 m wide and 1.75 m high.

Round 1.75 to the nearest whole number and use this value to estimate the answer to 3 × 1.75

[1 mark]

3x2 = 66 Your answer:



9

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3 (c)

In a different room, one of the walls is 2.7 m long and 2.2 m high.

Not drawn accurately

[3 marks]



Chester wants to put wallpaper on this wall.

He uses wallpaper that is 0.5 m wide and 12.1 m long.

Chester will hang the wallpaper vertically with no overlaps. Each piece will go from ceiling to floor with no joins.

How many rolls of wallpaper will Chester need to buy?

You must show your working.

$$2 \cdot 7 \div 0 \cdot 5 = 5 \cdot 4$$

 $12 \cdot 1 \div 2 \cdot 2 = 5 \cdot 5$
So chester will need 2 rolls.
Your answer: 2 rolls.

3 (d) Chester will paint the other walls and the ceiling.

He finds the colour he likes in two different sizes.



Chester thinks the larger tin is better value for money.

Is Chester correct?

Show how you decide.

[3 marks]





He wants to lay them at an angle.



He marks the angles on the tile before he cuts it, as shown below.



What is the angle he has marked?

[1 mark]

Your answer:

0



PassFunctionalSkills.co.uk 3 (g) Chester buys a pack The pack contains 12 sheets.

Chester buys a pack of sandpaper sheets with a mixture of grades.

The pack contains 12 coarse grade, seven medium grade and one fine grade

Chester takes one sheet out at random.

What is the probability that the sheet Chester picks is medium grade?

Mark the probability on the scale below.

[2 marks]



impossible



[Total marks: 15]

Activity 4: Football

4 (a) Every year, Shaz arranges a football tournament to raise money for charity.

Last year she raised £175

This year her target is to raise 25% more than last year.

What is £175 increased by 25%?

[2 marks]



4 (b) Shaz will share the money she raises between three charities.

She gives a local hospice $\frac{2}{5}$ of the money. She gives Save the Children $\frac{1}{4}$ of the money. She gives Age Concern $\frac{7}{20}$ of the money.

Which charity will get the most money?

Show how you decide.

[2 marks]

 $\frac{2}{5} = 0.40$ $\frac{1}{4} = 0.25$ $\frac{7}{70} = 0.35$ local hospice will get the most movey

Your answer:

local hospice.

Before the first match starts, the perimeter of the football pitch needs to be 4 (c) marked out. 38 m Not drawn 18m accurately Calculate the perimeter of the pitch. [1 mark] 18+18+38+38= 112 m 112 Your answer: m 4 (d) Shaz needs to mark out the centre spot of the rectangular football pitch. She uses the lines of symmetry and marks where they meet. Draw the lines of symmetry on the diagram below. [1 mark] 4 (e)

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There will be six matches in total.

Each match lasts 20 minutes.

There is a five minute gap between each match.

Shaz wants to have the last match finish at 14:10

What time should she start the first match?



4 (f)

These are the scores of the football matches:

Match	Team	Score		Team
1	А	4	5	В
2	C	3	0	D
3	A	4	4	С
4	D	7	8	В
5	Α	0	2	D
6	С	3	1	В

Teams get:

- 2 points if they win •
- 1 point each if they draw (when both teams score the same) •
- 0 points if they lose. •

Complete the table below.

Points Team Position 5 C 1st B 4 2nd 2 O 3rd A 1 4th

[2 marks]

Shaz buys drinks for the players and spectators.

Each of the four teams will have six players.

She estimates there will be 50 spectators in total.

Shaz allows 1.2 litres of drink per player and 300 ml of drink per spectator.

The drink is sold in 2.5 litre bottles.

How many bottles will Shaz need to buy?

[4 marks]

$$300 \text{ ml} = 0.3 \text{ likes}$$

$$4 \times 6 = 24 \text{ players}$$

$$24 \times 6 = 24 \text{ players}$$

$$24 \times 1.2 = 28.8 \text{ likes for playes}$$

$$50 \times 0.3 = 15 \text{ likes for speckales}$$

$$28.8 + 15 = 43.8 \text{ likes total}$$

$$43.8 \div 2.5 = 17.52$$
So she will need to buy
$$18 \text{ bottles}$$
Your answer: 18 bottles

[Total marks: 15]

This is the end of the assessment.







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