Functional Skills Mathematics
Level 1 sample assessment

Sample paper 7

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June 2015
Version 1

These materials relate to the assessments that will be in use from September 2015

Candidate Name (First, Middle, Last)

Candidate enrolment number

DOB (DDMMYYYY)

Candidate signature

Assessment date (DDMMYYYY)

Centre number

Total marks	
Task	**Mark**
Total	

Length of assessment: **1 hour 30 minutes**

You should have the following for this assessment

- a pen with black or blue ink
- a pencil and eraser
- a 30cm ruler
- graph paper
- a calculator
- a protractor.

- You may use a dictionary.

General instructions

- There are **3** tasks to complete.
- Each task is worth 15 marks.
- You should spend an equal amount of time on each task.
- Read through each task carefully.
- Show your working out. You may get marks for it.
- Check your calculations.
- Remember to put units on your answers.
- Write all working out and answers in this booklet.

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Task 1 Reduced items

There are **15** marks available for this task.

Introduction

This task is about reducing the prices of items in a supermarket.

You work in the supermarket.
Your manager asks you to reduce the price of sandwiches and fruit snacks with today's date.

Fruit snacks for sale

Sandwiches for sale

Bacon and tomato £2.90 each	5 Aug, 4 Aug, 5 Aug, 4 Aug
Salmon £2.90 each	03 Aug, 04 Aug, 03 Aug
Ham £2.50 each	05/08, 03/08, 03/08, 04/08, 03/08, 03/08
Egg £2.30 each	05 Aug, 03 Aug, 04 Aug, 03 Aug, 05 Aug, 03 Aug
Cheese £2.40 each	04 AUG, 05 AUG, 04 AUG, 06 AUG

Today's date is

3rd

August

1A

Make a list of the sandwiches and fruit snacks that show today's date. Include their prices.

(1 mark)

1B

The manager tells you to take

- 20% off the price of each type of sandwich on your list
- $\frac{1}{3}$ off the price of each type of fruit snack on your list.

What is the **new** price for each sandwich and fruit snack item on your list?

Show your working

(8 marks)

1C

Draw a table to show your manager all the items you will reduce.
Include

- the normal prices
- the new prices
- the number of packs of each item.

(4 marks)

1D

Choose one of your calculations from **1B** to show a check.

Check it by a **different** method to the one you used originally.
You can use approximation, a reverse calculation or any other suitable different method.

Write your check here

(2 marks)

Task 2 Certificates

There are **15** marks available for this task.

Introduction
This task is about planning a display of certificates.

You work in a sports centre.
You need to decide how to display all the trainers' certificates.

2A
This table shows the certificates.

Name	First Aid	Health and Safety	Swimming	Fitness	Aerobics	Yoga
Sinitta	✓	✓	✓	✓		✓
Harper		✓	✓	✓	✓	
Aaron	✓	✓	✓	✓	✓	
Charlie		✓	✓	✓		✓

What is the total number of certificates to display?

Total number of certificates _____

(1 mark)

All the certificates are the same size and **must** go this way up.

Not to scale

There are **two** notice boards to display the certificates.
Each notice board is one metre high and one metre wide.

2B
The manager wants you to put the certificates in rows.
You **must not** overlap the certificates.

What is the **maximum** number of certificates you can fit on **each** notice board?

Show your working.

Maximum number on each board _____

(5 marks)

2C

You need to group the certificates by **either** the trainer's name **or** the type of certificate.
You will put the certificates on the **two** notice boards.

Draw a **rough sketch** (not to scale) of the two notice boards.
Add the certificates to the notice board to show your manager how you will arrange them.

Label the sketch clearly.

(4 marks)

Use the squared paper below.

2D

You need to cover **each** notice board with clear plastic.
Each notice board is one metre high and one metre wide.

Clear plastic costs £18.75 per square metre.
How much will it cost to cover the **two** notice boards?

Show your working.

Total cost for clear plastic _____

(3 marks)

2E

Choose one of your calculations from **2B** or **2D** to show a check.

Check it by a **different** method to the one you used originally.
You can use approximation, a reverse calculation or any other suitable different method.

The calculation I am going to check is in **2B** ☐ **2D** ☐
(Tick one box)

Write your check here

(2 marks)

Task 3 Car insurance

There are **15** marks available for this task.

Introduction
This task is about car insurance.

Your manager asks you to write a comment for the company website about the savings new customers can make.

3A
Your manager has started to fill in a table with the **saving** each new customer made yesterday.

Savings for new customers			
Customer	Cost with old company	Cost with *Insure & Drive*	**Saving**
Miss T F	£1520	£1155	£365
Ms J N	£880	£695	£185
Mr T P	£1195	£945	
Mrs B G	£890	£690	
Mr J G	£1100	£825	
Ms D S	£1315	£1000	
Mrs L H	£795	£625	
Mr R F	£1260	£970	
Mr M C	£1725	£1345	

Complete the table.

Show your working

(2 marks)

3B
Work out the mean **saving** for the new customers.

Show your working.

Mean saving £ _____

(3 marks)

3C
The company website shows this claim

Change your car insurance to *Insure & Drive*
and save **at least 20%** compared to your old insurance company

Choose one of the customers in 3A**.** Customer's name _____

Do a calculation to show whether the claim is true for this customer.

Show your calculation here

Is the claim true? _____

(3 marks)

3D

This is a table showing the mean savings for customers last year.

Mean savings for last year							
Month	Mean saving	Month	Mean saving	Month	Mean saving	Month	Mean saving
January	£285	April	£275	July	£250	October	£240
February	£280	May	£270	August	£265	November	£260
March	£263	June	£257	September	£245	December	£255

The manager wants a chart to show the mean savings for the last six months of last year.

Draw a suitable chart that compares the mean savings for those six months.

(4 marks)

Use the graph paper below.

3E
Look back at your calculations and your chart.

Write a new comment for the website.

(1 mark)

3F
Choose one of your calculations from **3A, 3B** or **3C** to show a check.

Check it by a **different** method to the one you used originally.
You can use approximation, a reverse calculation or any other suitable different method.

The calculation I am going to check is in **3A** ☐ **3B** ☐ **3C** ☐
(Tick one box)

Write your check here

(2 marks)

Spare squared paper for 2C only

Spare graph paper for 3D only

Extra space for working out and answers

End of assessment

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