Functional Skills
Mathematics Assessment
Level 1

Learner name

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Run ID

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Learner signature

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Centre

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Assessment date

_____

	Available marks	1st Marker	2nd Marker
Task 1 Q1	1		
Q2	8		
Q3	2		
Q4	2		
Q5	4		
Q6	2		
Task 2 Q1	2		
Q2	8		
Q3	1		
Task 3 Q1	3		
Q2	4		
Task 4 Q1	4		
Q2	4		
Total	45		

Instructions to candidates

You may use a calculator.

You **will** need a pen, pencil and a ruler.

You **may** need access to a 90° set square, a compass, and a protractor.

Use only blue or black ink. Pencil **must only** be used for drawing.

There are 4 tasks in this assessment.

You must attempt ALL tasks.

Total marks available: 45

You have **1 hour and 30 minutes** to finish the assessment.

Task 1

Question 1

You are going on a geography field trip to Finland.

You decide to buy stickers with your name on to go on each side of your equipment box.

1)   How many stickers do you need to buy?

Show any workings out and write your answer in the box below.   **(1 mark)**

Question 2

You can buy the stickers online from two different companies:
- "StickersRus" will charge you 40p per sticker
- "Stuck-on-us" has a special offer of £0.29 per sticker on an order of 8 stickers.

2a)   Which company is cheaper and by how much?

Show any workings out and write your answer in the box below.   **(3 marks)**

Each sticker is 55mm by 75mm.

2b) **Work out the area of the sticker in cm^2.**

Show any workings out and write your answer in the box below. **(3 marks)**

You decide to personalise the sticker by gluing some red tape on the perimeter.

2c) **How much red tape do you need to buy?**

Show any workings out and write your answer in the box below. **(2 marks)**

Question 3

You book your luggage into the hold. There is a weight limit of 39kg per person. You intend to use 2/3 of the weight limit for your clothes and save the rest for the souvenirs you want to bring back.

3)   What is the maximum weight available for souvenirs?

Show any workings out and write your answer in the box below.   **(2 marks)**

Question 4

You know that the temperature at your home today is 12°C, in Finland it is -13°C.

4a)   How much colder is it in Finland than your home?

Show any workings out and write your answer in the box below.   **(1 mark)**

You are told that the temperature in Finland will drop a further 10°C by midnight.

4b)   What will the temperature be at midnight in Finland?

Show any workings out and write your answer in the box below.   **(1 mark)**

Question 5

You want to know how much a taxi will cost to get you to the airport. You find this guide on the "Quick-To-Run Taxi" website.

> *Quick-To-Run Taxis*
> *Cost = Standard charge + 15 pence per mile*
>
> *Standard Charge is £15*

5)   **You live 20 miles from the airport, how much would your fare be?**

Show any workings out and write your answer in the box below.   **(4 marks)**

Question 6

You decide to catch the bus to the airport. You need 10 minutes to walk to the bus station at Bristol Temple Meads.

Bristol Bus Station	⟩	0220	0320	0420	0450	0520	0540	0600	at least	1840
Bristol Temple Meads	⟩	0229	0329	0429	0459	0532	0552	0612	every 10	1855
West Street, Parson Street	⟩	0236	0336	0436	0506	0540	0600	0620	minutes	1905
Bristol Airport	⟩	0247	0347	0447	0517	0551	0611	0631	until	1917

You need to be at Bristol Airport by 0620.

6a)   Which bus is the latest bus that will get you there on time?

(1 mark)

6b)   What is the latest time you need to leave your home in order to catch that bus?
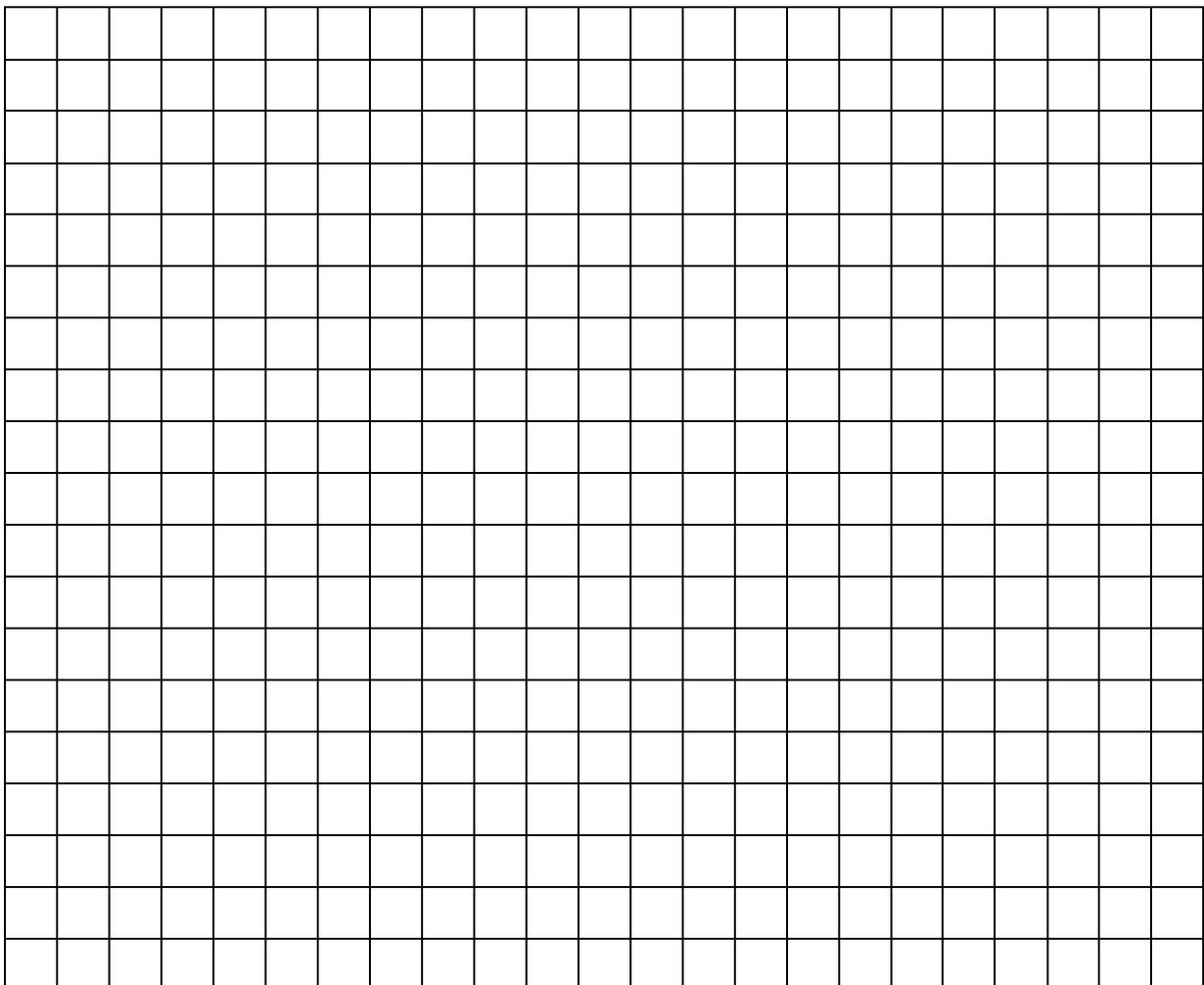
(1 mark)

Task 2

Question 1

As part of your fieldtrip you collect data on the price of a cappuccino in 10 cafés. The currency in Finland is Euros (€).

Café 1	Café 2	Café 3	Café 4	Café 5	Café 6	Café 7	Café 8	Café 9	Café 10
3.15	3.20	3.15	3.40	3.35	3.20	3.20	3.50	3.45	3.20

1) **In the space below display the data as a graph or chart.**

(2 marks)

2a) **What is the average price of the cappuccinos?**

Show any workings out and write your answer in the box below.   **(4 marks)**

2b) **How useful is the average value in deciding where to buy a cappuccino?**

Show any workings out and write your answer in the box below.   **(1 mark)**

2c) **What is the probability of any one café charging a price higher than the mean price?**

Show any workings out and write your answer in the box below.   **(1 mark)**

2d)   What is the range of prices for a cappuccino?

Show any workings out and write your answer in the box below.   **(2 marks)**

Question 3

You decide to have a cappuccino and you pick one of the 10 cafés at random.

3)   What is the probability that you pay €3.20 for your cappuccino?

Show any workings out and write your answer in the box below.   **(1 mark)**

Task 3

Question 1

You and two friends decide to have a meal at a café. The menu for the main meal is shown below.

Menu

	€
Cauliflower Soup	*8.21*
Salmon Soup	*10.25*
Breaded Chicken Fillet	*12.50*
Meatballs	*13.30*
Pizza	*14.50*

You all agree to order different meals. You have a combined budget of €40.

1a) **In the box below show all the different combinations of meals the three of you could choose.**

Show any workings out and write your answer in the box below.   **(2 marks)**

1b) **Which combination of meals is not available for the €40?**

(1 mark)

Question 2

You visit the café again.
For the starter two of you order cauliflower soup and one orders salmon soup.
For the main course two order meatballs and one orders pizza.

2a)   How much does the bill come to?

Show any workings out and write your answer in the box below.   **(2 marks)**

You split the bill equally between the three of you.

2b)   How much do you each pay?

Show any workings out and write your answer in the box below.   **(2 marks)**

Task 4

Question 1

You really like the cauliflower soup and you get the recipe.

Cauliflower Soup
(serves 4)

1 onion
1 garlic clove
800g cauliflower
1 litre chicken stock
150ml double cream

You intend to make this soup for 12 people.

1a)   How many grams of cauliflower do you need to use?

Show any workings out and write your answer in the box below.   **(2 marks)**

One stock cube will make 500ml of stock.

1b)   How many stock cubes do you need to make 3 litres of stock?

Show any workings out and write your answer in the box below.   **(2 marks)**

After you have made the soup, you eat $^1/_4$ of the soup and then give your friends 50% of the remainder. You freeze the rest of the soup for a later date.

Question 2

2) **What percentage of the soup was frozen?**

Show any workings out and write your answer in the box below.   **(3 marks)**

Show how you can check your answer.

(1 mark)

END OF ASSESSMENT

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