

# Functional Skills Mathematics Level 1 - Sample

Fill in your name, date of birth, registration number and centre in the boxes below.

Surname:	Other Names:
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<b>My signature confirms that I will not discuss the content of this assessment with anyone.</b>	
Signature:	

<b>Paper Ref:</b> FSML1AB/P	<b>Time:</b> 1 hour 30 minutes	<b>Total Marks:</b> 45	<b>Marks Achieved:</b> /45
<b>You must have:</b> A pen with black or blue ink, calculator, HB pencil, eraser, ruler (graduated in cm and mm)			
<b>Instructions</b> <ul style="list-style-type: none"> <li>• Answer <b>all</b> questions.</li> <li>• Answer the questions in the spaces provided.</li> </ul> <b>Information</b> <ul style="list-style-type: none"> <li>• The total mark for this paper is <b>45</b>.</li> <li>• The marks for <b>each</b> question are shown in brackets - use this as a guide as to how much time to spend on each question.</li> <li>• You must show clearly how you get your answers because marks will be awarded for your working out.</li> <li>• Check your working and your answers at each stage.</li> <li>• Calculators may be used throughout the paper.</li> </ul>			

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## Section A - Buying a Phone

Marker  
Use Only

Hari wants to buy a mobile phone. He finds these deals on the internet.

**PHC Phone Series 4**

**Original price £350**

**20% off the price**



**Sampson Phone Series 4**

**Original price £399**

**1/3 off the price**



**1. How much would Hari save on each phone?**

You **must** show your working.

(4 marks)

PHC discount \_\_\_\_\_

Sampson discount \_\_\_\_\_

**2. Which phone gives the better discount? Why do you think this?**

*Explain your reasoning.*

(3 marks)

Phone \_\_\_\_\_

Reasons:

**3(a) What is the discounted price of each phone?**

You **must** show your working.

(1 mark)

PHC	_____
Sampson	_____

**3(b)** You should have checked your calculations throughout the task.

Use the box below to show how you can check **each** of your answers for **Q3(a)**.

The method you use for checking **must be different** from the method you first used to work out your final answer.

Show your check.

(2 marks)

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4. Hari wants to compare what is provided, each month, as part of the contract for both phones.

He reads this information on the internet.

**PHC Phone Series 4**

**Why buy?**  
Free unlimited texts  
500 minutes free calls  
Free data usage 500MB  
Calls over limit at 10p a minute

The best phone for you?  
**Sampson Phone Series 4**

Free data usage 750MB  
400 texts free  
400 minutes free calls  
Calls over limit at 18p for two minutes

**Draw a table to compare the two phones.**

(4 marks)

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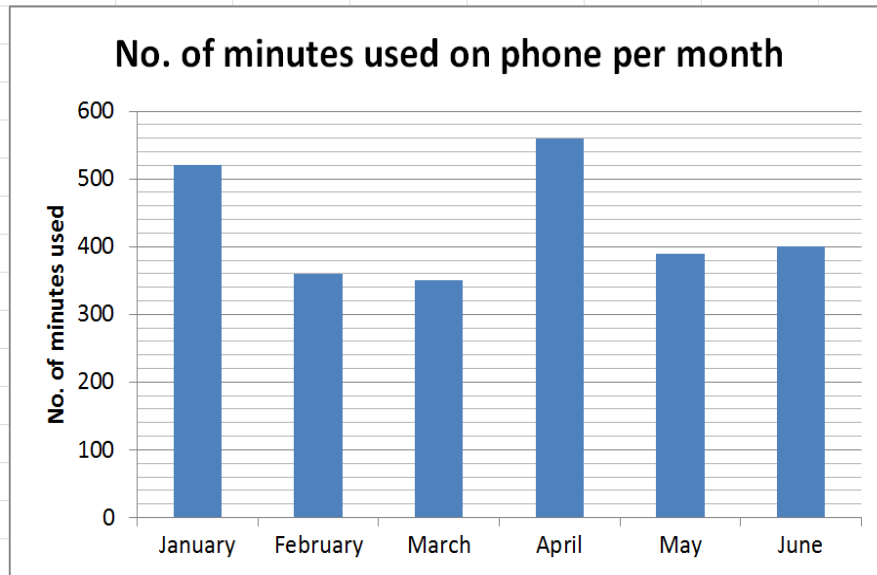
5. Looking at the all the information you have on these two phones, which one would you choose?

Give a reason for your choice.

(1 mark)

Choice of phone _____
Reason for choosing the phone:

6. Hari keeps a record of the number (No.) of minutes he uses over the first six months. The results are shown below.



Hari has an allowance of 500 free minutes each month on his contract.

**How many times did he exceed his allowance and in which months?**

(2 marks)

**7. What is the mean number of minutes Hari used per month?**

*You **must** show your working.*

(4 marks)

8. Hari compares insurance for his new phone. He finds these offers:

Marker  
Use Only

**Insure a phone**  
Only £3.50 a month!  
Accidental damage included.  
Water damage only 50p per month. extra!

**Phones to go**  
Only £2.50 a month!  
Accidental damage an extra 75p per month.  
Water damage only 55p per month extra!

Hari wants insurance with accidental damage and water damage cover.

**Which insurance should Hari choose and why?** (3 marks)

**Section B - Volunteering**

Zeb has volunteered to help build an adventure playground in his local park.

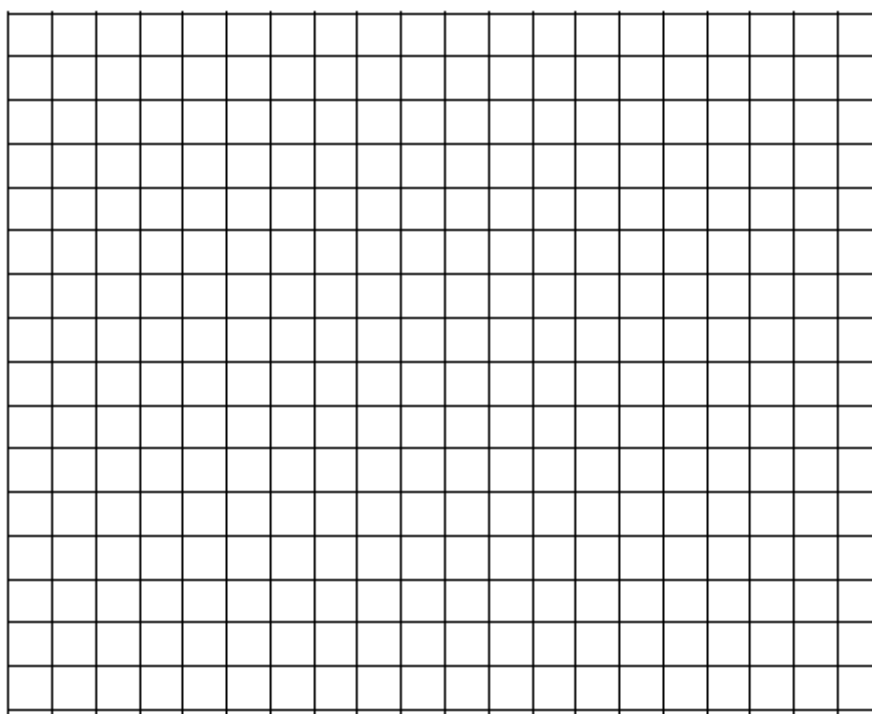
The playground will be 15 metres in length and 10 metres wide.

**1(a) On the squared paper provided, draw a plan of the playground using a scale of 1 square to represent 1m.**

You **must** show your working.

(3 marks)

*Use this space for your working out.*



**1(b)** The playground will have a small area for a sand pit measuring 150cm by 200cm.

The sand pit needs to be 1 metre away from the edge of the playground on **two** of its sides.

**Draw the sand pit on your plan using the same scale as Q1(a).** (5 marks)

*Use this space for your working out.*

2. The sand pit is 150cm by 200cm.

**What is the area of the sand pit in  $m^2$  (metres squared)?**

*You **must** show your working.*

(3 marks)

3. Zeb wants to put a fence around the sand pit. The sand pit is 150cm by 200cm.

**How long will the fence be?**

*You **must** show your working.*

(2 marks)

**4(a)** Zeb needs 2 800kg of sand to fill the sand pit.

One bag of sand weighs 900kg.

**How many bags of sand will Zeb need?**

*You **must** show your working.*

(3 marks)

**4(b)** You should have checked your calculations throughout the task.

Use the box below to show how you can check your answer for **Q4(a)**.

The method you use for checking **must be different** from the method you first used to work out your final answer.

*Show your check.*

(2 marks)

**5.** Zeb needs to buy toys for the sand pit. Each bag of toys costs £37. He wants to buy **6 bags** of toys.

Zeb has a budget of £200.

Zeb thinks he does not have enough money to buy 6 bags of sand pit toys.

**Is Zeb correct?**

*You **must** show your working.*

(3 marks)

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## END OF ASSESSMENT

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