Functional Skills Mathematics Level 1 (Set 3)

PLEASE SIGN AND DATE BELOW TO CONFIRM DETAILS AND YOU UNDERSTOOD THE INSTRUCTIONS

First name:	**Joe**
Family name:	**Blogs**
Student number (ULN):	**0**
Centre number:	**0**
Date of birth:	**06/05/1972**
Signature:	
Today's date:	

Functional Skills - Awarding Consortium

Functional Skills Mathematics - Level 1

PLEASE READ THE TEXT BELOW CAREFULLY BEFORE COMMENCING THE ASSESSMENT

INSTRUCTIONS AND GUIDANCE

- The test includes three tasks.
- The total number of marks is: **45 marks**.
- The number of marks available for each question is shown in brackets.
- You have **2 hours** to complete the assessment.
- The invigilator will monitor the time and inform you when the test finishes at which point you must stop working.

- You should attempt to complete all of the tasks.
- You should plan your work carefully and be aware of the time available to complete the assessment.
- You should show your workings in the "Workings" spaces provided on the assessment paper. These will be assessed.
- You should write on the printed side of the assessment paper only. Work completed on the other side will not be taken into consideration by the marker.
- You may use a standard portable **calculator**.

The allocation of marks for each task is shown in the table below

Task	Mark
1	16
2	15
3	14
Total	45

Task 1	**Task 1 - Awards ceremony**
Total marks available	**16 marks**

Theo is organising an awards ceremony for members of the local youth centre.

He has hired a hall which must close at 11pm. Theo has made these notes about the event.

presents awards : ¾ hours

set up equipment : 30 mins

clear equipment and tidy up : 20 mins

buffet (before awards) : 1 hr

dancing (afterwards) : 50 mins

Theo wants the night to include all the events in his notes and needs to start after 7.30pm.

Question 1

Create a timetable for Theo showing **all** the activities in order **and** the time when they should start. Can Theo start the awards evening after 7.30pm?

Workings

Answer:..

....

....

....

....
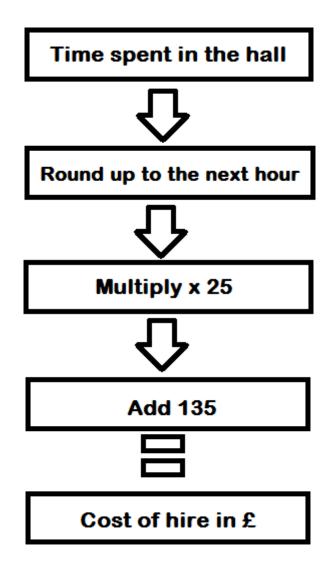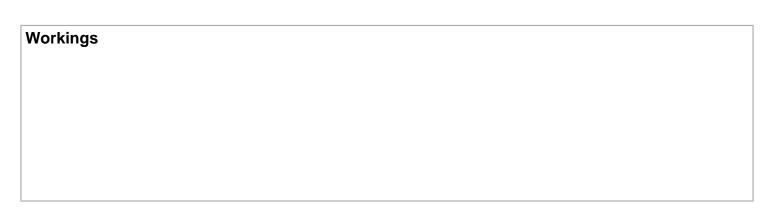
(5 marks)

Theo needs to calculate the cost of the hall he is hiring for the awards ceremony.

He uses these instructions:

Question 2

Use the information you calculated in Question 1 **and** the instructions above to find the cost of hiring the hall.

Workings

Answer:.. **(4 marks)**

Theo will be offering a free glass of fresh juice to each of the 150 guests attending the ceremony.

He expects to get 5 glasses from every carton of juice. Theo thinks 25 cartons will be enough.

Question 3

Work out if Theo is correct.

Workings

Answer:... **(3 marks)**

Theo gets a quote from a catering company for the buffet.

They say they can supply enough food for 150 people at a cost of £3 per person.

There is also a 10% discount for orders over £400.

Question 4

How much will the buffet cost?

Workings

Answer:... **(4 marks)**

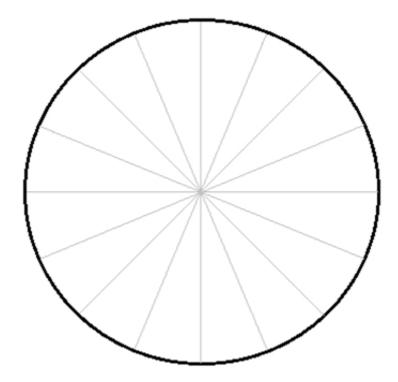| Task 2	Task 2 - Getting to work
Total marks available	**15 marks**

Tracy has been asked to research how her workmates get to and from work.

She asked 32 of her workmates and gathered this information:

Type of transport	Number of people	Fraction of people
Walk	4	1/8
Bus	8	
Cycle	8	
Car	12	

Tracy wants to represent this information in a pie chart.

She finds this blank chart which has 16 sectors to help her draw the chart without using a protractor.

Question 5
Complete the table **and** fill in the pie chart to represent the information. Make sure to label it correctly.

Workings

(8 marks)

Tracy's supervisor wants to know how much of the workforce walk or cycle to work.

She hopes it is more than 50%.

Question 6

Do more than 50% of the workers in this research walk or cycle to work?

Workings

Answer:.. **(3 marks)**

Tracy counts the number of bicycles in the parking area outside her workplace once a day on a typical week.

These are her findings from Monday to Friday over one week.

9   5   7   10   9

Question 7

Calculate the mean of this data.

Is it likely that a minimum of 8 people regularly cycle to work based on these figures?
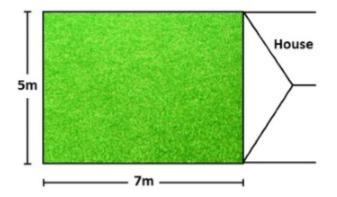
Workings

Answer:..   **(4 marks)**

Task 3

Total marks available

Task 3 - Children's party

14 marks

The MacDonald family are holding a children's party in their garden. This is a plan of the garden.

They will be hiring a bouncy castle which is 3 metres square. They are also hiring a slide which is 4 metres long and 1 metre wide.
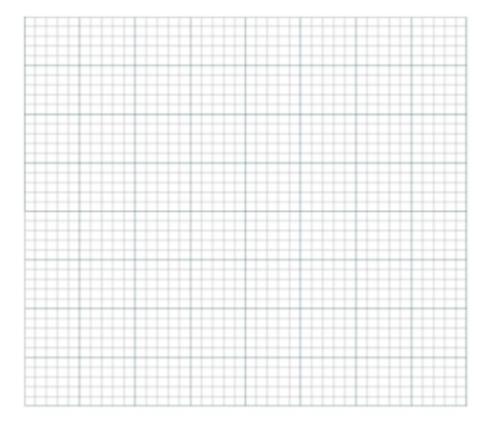
There must be a gap of at least 50 centimetres between the bouncy castle and slide, and both must be at least 50 centimetres from the garden fence or the house.

Question 8

Draw the bouncy castle and the slide on the grid to show how both can fit into the garden.

Workings

(5 marks)

Mrs MacDonald is told that the bouncy castle and the slide must not take up more than half of the garden for safety reasons.

Question 9

Calculate the areas of the bouncy castle, the slide and the garden.

Does the equipment take up more than half the garden area?

Workings

Answer:..   **(5 marks)**
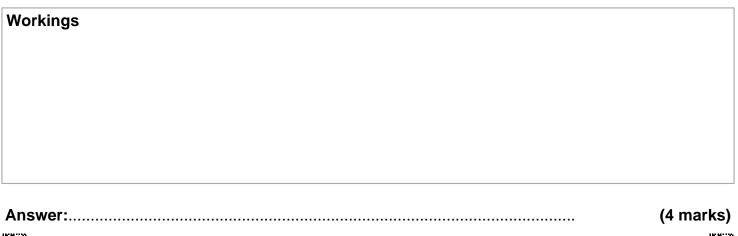
The cost of hiring both the bouncy castle and the slide is £45 for 4 hours, plus £8.75 for every extra hour.

Mr MacDonald would like to hire the equipment for 6 hours.

Question 10

Calculate the cost of hiring the equipment **and** check one of your calculations using a suitable method.

Workings

Answer:..   **(4 marks)**

[End of test]