Functional Skills
Mathematics Assessment
Level 1

There are 2 sections in this assessment, Part A and Part B.

Part A - Non-calculator

You have 30 minutes to complete this section.

You must not use a calculator.

Learner name

_____

Run ID

_____

Learner signature

_____

Centre

_____

Assessment date

_____

Instructions to learners

Part A: Non-calculator

You will need a pen, pencil and a ruler. You may need a protractor and compasses.

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

You can write or draw to show your answers.

You have **30 minutes** to complete **Part A**.

Question 1

Estimate the answer to 39.856 **x** 7.421 **by rounding to whole numbers.**

Write your answer in the box below. **(2 marks)**

Answer_____

Question 2

Find the mean of the numbers listed below:

4   1   6   29   3   23

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

Answer_____

Question 3

Show ¼ as a decimal, then a percentage.

Show your answer in the table below.

Fraction	Decimal	Percentage
¼		

Use this box for your working out. **(2 marks)**

Question 4

Calculate 5% of £300.

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

Answer_____

Question 5

A sports shop records its sale figures for the last 5 months.

May sales are: seventy-two thousand, five hundred and twenty.

	Jan	Feb	Mar	Apr	May
(£)	135,700	87,300	109,600	52,525	

Add the May figure and place sales figures in order starting with the highest.

Write your answer in the grid below.   **(2 marks)**

Question 6

Sharron gets a total of £1050 each month.

She spends 3/10 of this on rent and 2/3 on food and bills.

How much money does Sharron have remaining?

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

Answer_____

End of Part A
Non-calculator

The invigilator will collect this section when the assessment time has elapsed.

The section must be collected by the invigilator before proceeding to Part B.

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Level 1

Learner name

_____

Run ID

_____

Learner signature

_____

Centre

_____

Assessment date

_____

Part B - Calculator

You have 1 hour 15 minutes to complete this section.

You **may** use a calculator.

Instructions to learners

Part B: Calculator

You will need a pen, pencil, ruler and a calculator. You may need a protractor and compasses.

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

You can write or draw to show your answers.

You have **1 hour 15 minutes** to complete **Part B**.

Question 7

Dave owns a shop.

He buys 20 boxes of chocolate bars from a wholesaler to sell in his shop. Each box contains 20 bars.

47 bars are damaged.

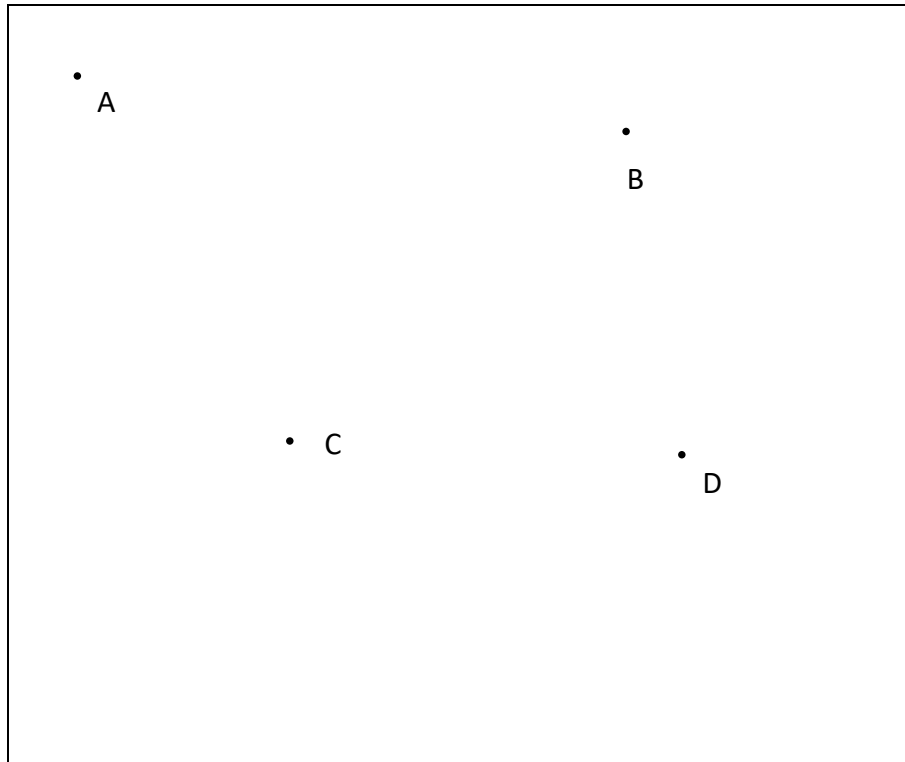**Estimate what fraction of bars can be sold. Show the fraction in its lowest form.**

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

Answer_____

Question 8

Paulina is planning a forest walk for her walking club. They will walk from point A to point D. They will need to stop for a water break at either point B or point C.

Scale: 1cm = 5km

What is the length of the shorter route in kilometres?

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

Answer_____

Question 9

A youth centre spends the day strawberry picking.

The tubs of strawberries are weighed individually.

Weight of Strawberry Tubs
570g
1kg
0.43kg
1200g
600g

Calculate the total weight of the strawberries. Give your answer in kilograms.

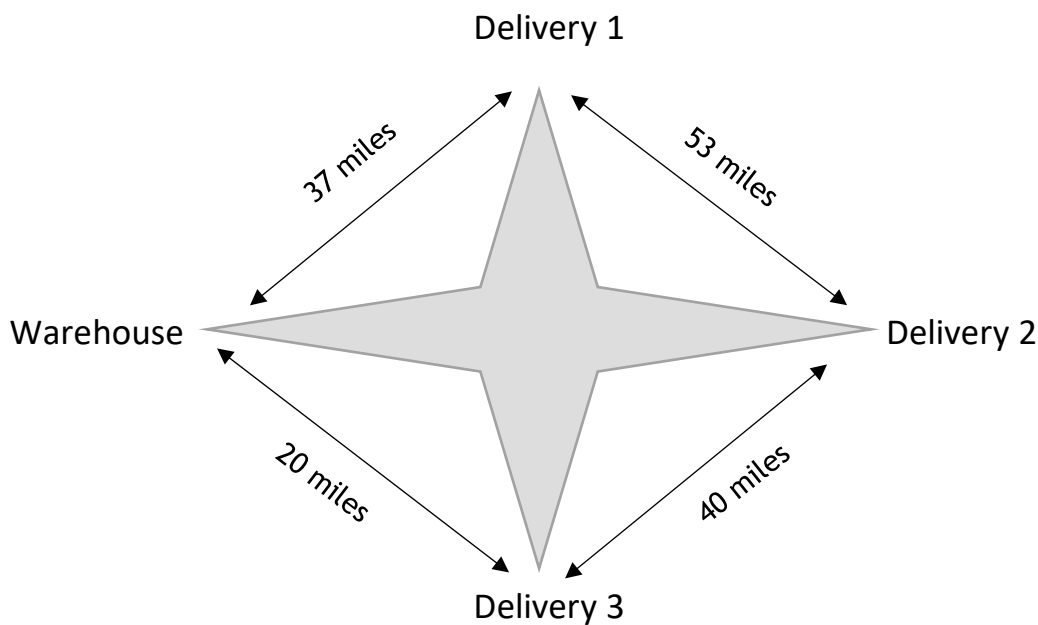Show your working out and write your answer in the box below.   **(2 marks)**

Answer_____kg

Question 10

Jason is a delivery driver. He starts and finishes at the warehouse. Each delivery stop that Jason makes will take 20 minutes. Jason has three deliveries to make. Jason's average speed is 40mph.

Use the formula: **Time** (in hours) = **distance** (in miles) **÷ average speed** (in mph)

Delivery 1

37 miles

53 miles

Warehouse

Delivery 2

20 miles

40 miles

Delivery 3

Jason leaves at 9.00am.

What time will Jason get back to the warehouse?

Show your working out and write your answer in the box below.   **(5 marks)**

Answer_____

Question 11

Aaron takes 40 minutes to run 5 miles.

He wants to use this information to estimate how long it will take him to run a half marathon.

A half marathon is 13 miles.

What is the estimated time Aaron will take to run the half marathon? Give a reason why this estimate may be unreliable.

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

Answer_____

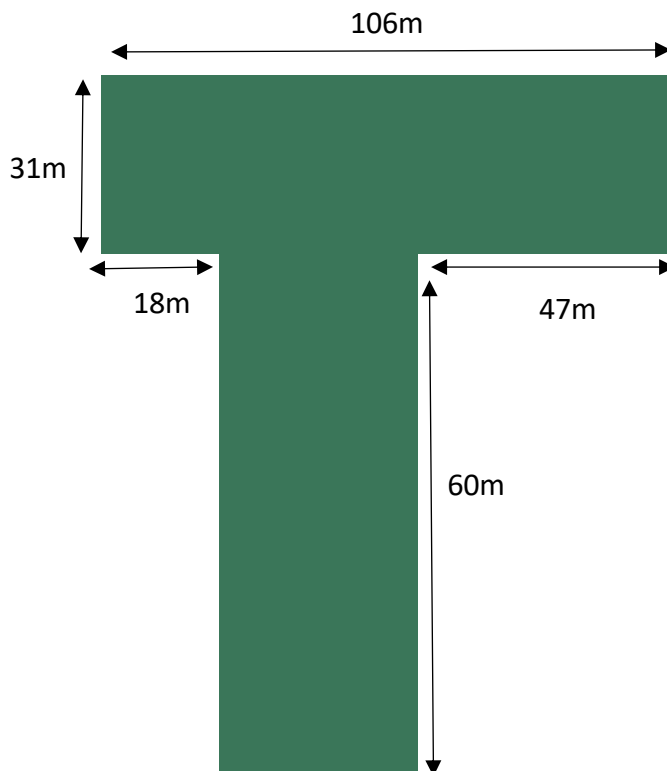## Question 12

A school needs to cut the grass on the playing fields. They have found two companies who offer a grass cutting service.

Fresh Cuts	*Green Gardens*
Fixed price £250	Grass cutting 4p per square metre

The diagram below is a plan of the playing fields.
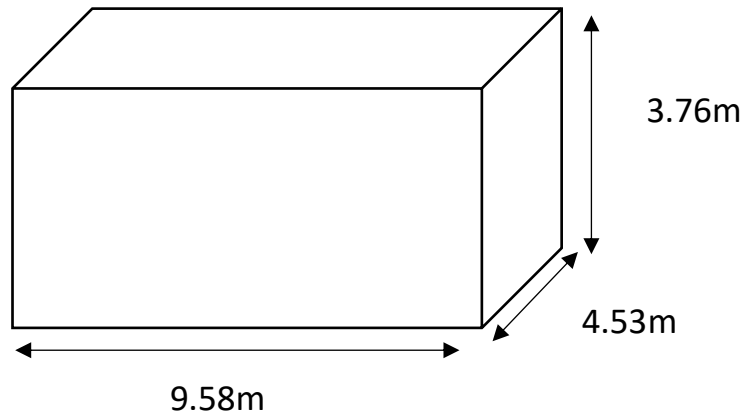
Which company is the cheaper option for the school?

Show your working out and write your answer in the box below.   **(6 marks)**

Answer _____

Question 13

Calculate the volume of the cuboid below, give your answer to 2dp.

3.76m

4.53m

9.58m

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

Answer_____

Question 14

Ann looks at her bank statement online; it shows she is overdrawn.
The account balance is:

$$– £375.20$$

Ann knows her monthly wage of £1,525.80 will go into the account today.

What will the balance on the account be after the payment has been received?

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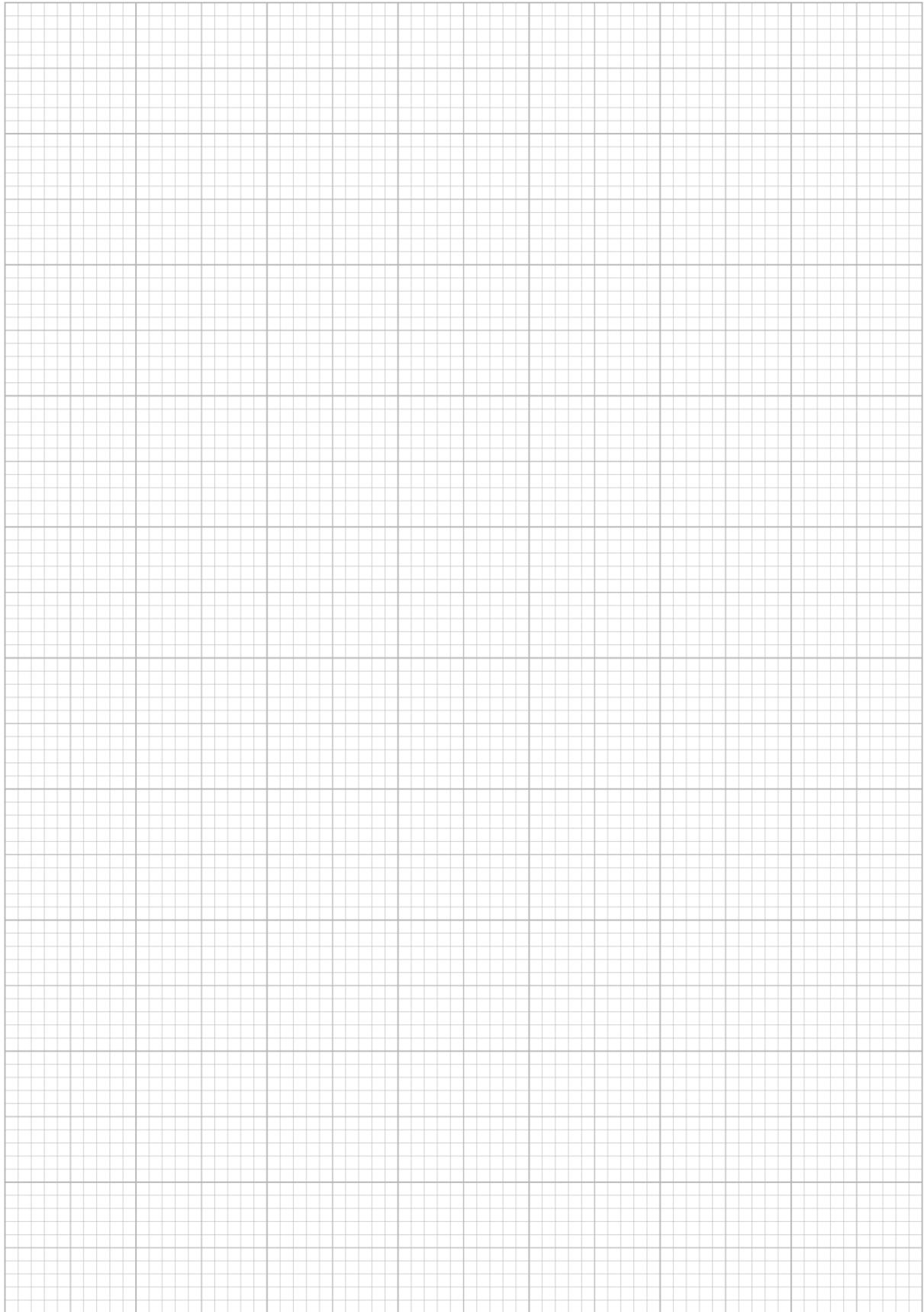
Answer_____

Question 15

Rob is looking at sale numbers for his new brand of ladies' shoes in the last year. He records the information in a table.

Shoe Size	Number of Orders
4	63
5	82
6	135
7	114
8	92
9	159

Use the space on the next page to draw a suitable chart showing Rob's findings.

(4 marks)

Question 16

A student rail card gives 15% off the original price.

Sue uses her rail card to buy a ticket home; the original price is £120.

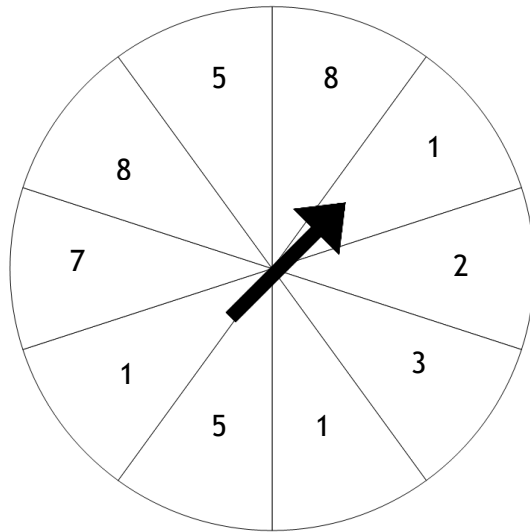**How much will Sue pay for her train ticket using her rail card?**

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

Answer_____

Question 17

At a party the children are playing a board-game, they have to spin the arrow to know how many spaces to move.

a) What is the probability that the arrow will land on the number 5? Show your answer as a fraction in its simplest form.

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

Answer_____

b) Which number has the highest probability that the arrow will land on it in the board game? Explain your answer.   **(2 marks)**

Answer_____

Question 18

Draw a net of the cube below.

3cm

Use this space for your drawing. **(2 marks)**

Question 19

29(42 ÷ 3) + 16 =

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

Answer_____

End of Part B
Calculator

The invigilator will collect this section when the assessment time has elapsed.

End of Assessment.

Functional Skills
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Level 1
Marking Sheet

Question	Available marks	1st Marker	2nd Marker
Q1	2		
Q2	2		
Q3	2		
Q4	2		
Q5	2		
Q6	4		
Q7	3		
Q8	4		
Q9	2		
Q10	5		
Q11	4		
Q12	6		
Q13	3		
Q14	2		
Q15	4		
Q16	2		
Q17a	2		
Q17b	2		
Q18	2		
Q19	1		
Total	56		

Marker's name and date   **Moderator's name and date (if sampled)**

_____   _____

Comments from Marker

_____

_____

_____

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