



3748-319 Sample Paper 2

Level 1 Functional Skills Mathematics



Candidate Name (First, Middle, Last)

Candidate enrolment number

DOB (DDMMYYYY)

Candidate signature and declaration*

Assessment date (DDMMYYYY) Centre number

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 for graph work
- a pencil and eraser
- a 30cm ruler.

- You may use a calculator.
- You may use a protractor.
- You may use a dictionary.

General instructions

- There are **3** tasks to complete.
- 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.
- There are additional pages at the back of this booklet if you run out of space.

***I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.**



Task 1 Soft toys

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

You should check all your work as you go along.

Introduction

This task is about a sales competition for staff in a shop.

The people who work on the tills have to sell some soft toys.
There is a competition to see who can sell the most.

You have to give your manager the results of the competition.



1A

Fill in the table below with

- the total number of toys each person sold
- the total value of the toys each person sold.

Competition to sell soft toys				
Person	Number sold		Total number of toys sold	Total value of toys sold £
	Teddy bear £10	Rabbit £7		
Ross	8	21		
Mohan	10	24		
Nimita	15	8		
Charlie	16	16		
Abbie	11	22		



Show your working

(4 marks)



1B

Who do you think should win the competition?

Give one reason.

<p>Winner's name _____</p> <p>Reason</p>
--

(1 mark)

1C

The winner gets a prize of 15% of the total value of the toys he or she sold.

How much money will the winner get for the prize?

<p>Show your working</p> <p style="text-align: right;">Prize £ _____</p>
--

(3 marks)





1D

Draw a table to show the results of the competition to your manager.

Your table must show the

- results **in order**
- total number of toys each person sold
- total value of the toys each person sold
- winner and the prize money.

(5 marks)

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1G

Choose one of your calculations in **1A** or **1C** 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

1A	<input type="checkbox"/>
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1C	<input type="checkbox"/>
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(Tick one box)

Write your check here

(2 marks)



Task 2 Filing Cabinets

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

You should check all your work as you go along.

Introduction

This task is about fitting filing cabinets along a wall.

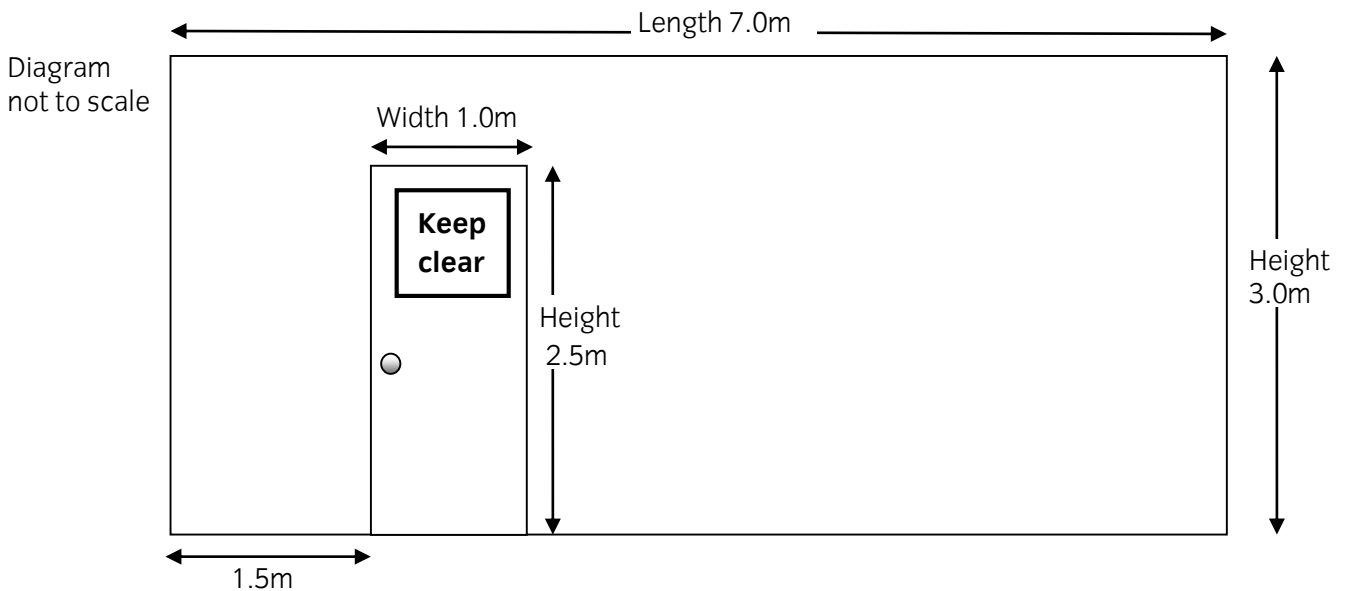
The company where you work is moving to a new building.

You have to plan where the filing cabinets will go in the new office.



2A

What is the length of the wall on each side of the door?



Show your working

Length of the wall on left of door _____

Length of the wall on right of door _____

(2 marks)

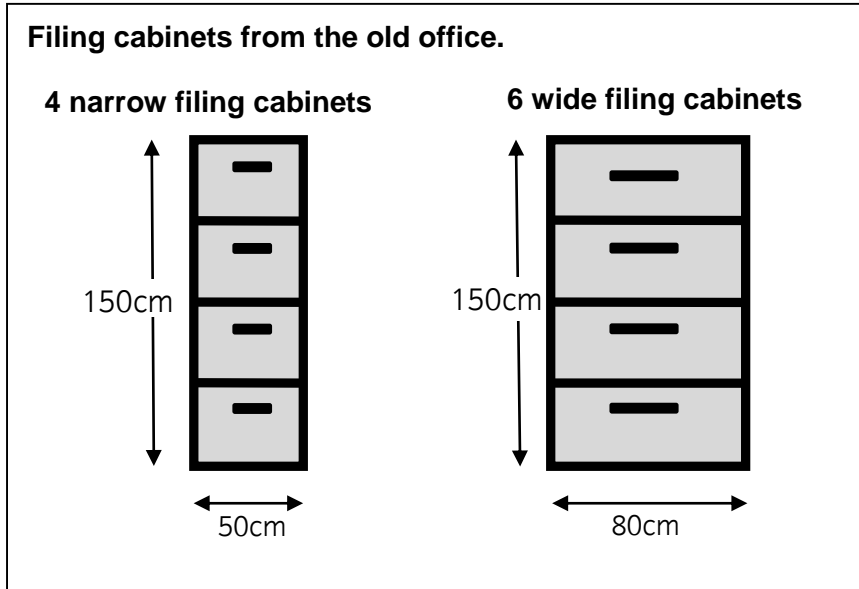
2B

Look at the filing cabinets from the old office.

Your manager wants as many of these filing cabinets as possible to go along the wall.

How many of each size of filing cabinet will you put along the wall?

Put your answers in the tables below.



Show your working

Left	
Size	Number
Narrow	
Wide	

Right	
Size	Number
Narrow	
Wide	

(4 marks)

3C

How many of each size of filing cabinet will you have left over?

Put your answers in the table below.

Show your working

Size	Number
Narrow	
Wide	

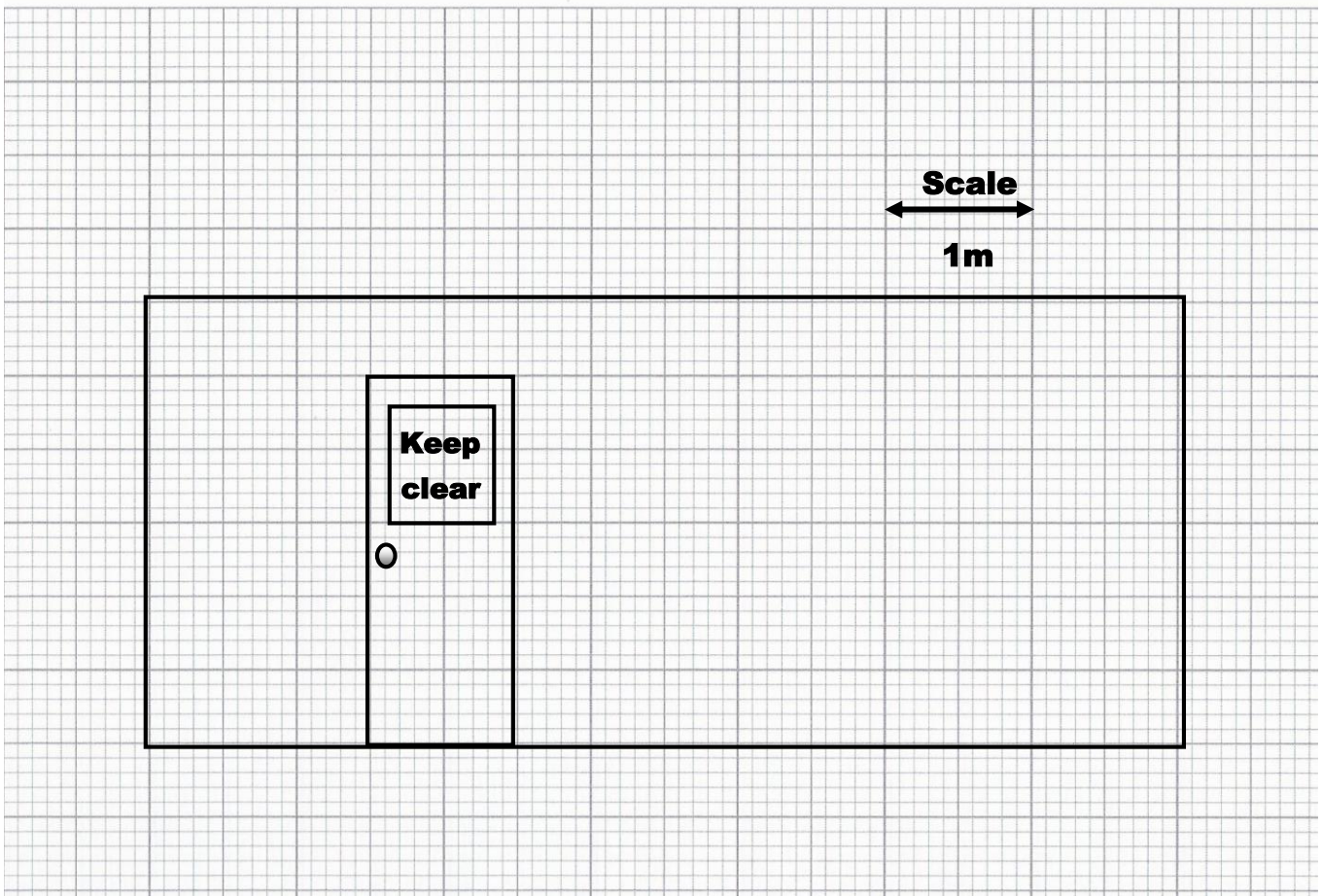
(2 marks)

2D

Draw the filing cabinets to scale on the scale diagram below.

Label your scale diagram.

(5 marks)



2E

You need to show a check of how you used the scale at **2D**.

Explain how you know one of the lines on your diagram is the correct scaled length.

Write your check here

(2 marks)

Task 3 Digital Cameras



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

You should check all your work as you go along.

Introduction

This task is about testing digital cameras.

You asked testers to give a score to 4 digital cameras for three features

- picture quality
- how long the batteries last
- how easy it is to use.

3A

These are the scores for 'how easy it is to use'.

Camera	Number of testers	Scores for 'how easy it is to use' 0 is very bad, 10 is very good
Hex 11	15	5 7 4 8 5 7 6 5 7 8 6 4 10 10 7
Apollo SX	12	8 9 9 7 7 9 6 8 7 8 8 10
CAM XL	10	6 8 6 5 7 5 6 4 8 7
Japa C4	12	5 7 2 7 3 6 5 5 8 5 2 5

Work out the mean score for each camera for 'how easy it is to use'.

Complete the table below

Show your working

Camera	Mean score
Hex 11	
Apollo SX	
CAM XL	
Japa C4	

(4 marks)



3B

Choose one of your calculations in **3A** to show a check.

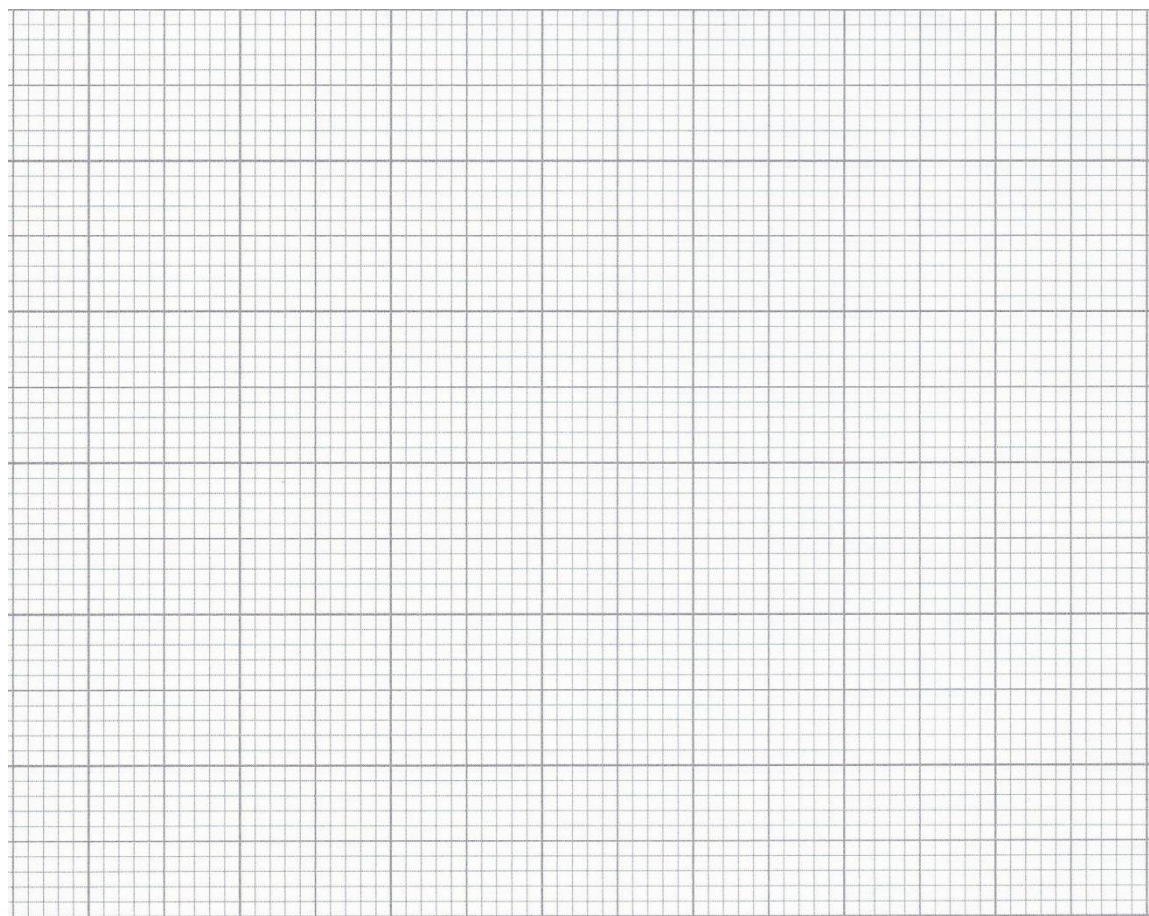
Check it by a **different** method to the one you used originally.
You can use approximation, a reverse calculation or any other suitable different method.

Write your check here

(2 marks)

3C

Draw a chart to show the means for 'how easy it is to use' the **4** cameras



(4 marks)



3D

The table below shows the results of the camera test.

Complete the table with

- your mean scores from question 1, 'how easy it is to use'
- the order of the cameras using the means for 'how long the batteries last' and 'how easy it is to use'.

Results						
Camera	Picture quality		How long the batteries last		How easy it is to use	
	Mean	Order	Mean	Order	Mean	Order
Hex 11	6.4	3 rd	7.6			
Apollo SX	8.5	1 st	6.0			
CAM XL	7.0	2 nd	5.5			
Japa C4	4.9	4 th	6.9			

(2 marks)



3E

Camera	Price (£)	Weight (g)
Hex 11	529.99	1100
Apollo SX	469.99	950
CAM XL	399.99	1070
Japa C4	279.99	890

A shop stocks all four cameras.

A customer wants a camera that has good picture quality, easy to use, weighs less than 1kg and costs less than £500.

What is the probability (chance) that the customer will find a camera she wants in the shop.

Explain your answer.

The Probability that the customer will a camera she wants in the shop is:

(Tick one box)

Certain	<input type="checkbox"/>
Likely	<input type="checkbox"/>
50/50 chance	<input type="checkbox"/>
Unlikely	<input type="checkbox"/>
No chance	<input type="checkbox"/>

Explanation

(3 mark)

End of assessment





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