ENTRY LEVEL 3
FUNCTIONAL SKILLS
MATHS – PART A

QUESTION PAPER

SAMPLE ASSESSMENT MATERIAL

Learner name:	*Auto-filled by XAMS*
Learner number:	*Auto-filled by XAMS*
Your Signature:	
Today's date:	*Auto-filled by XAMS*

Total marks available: **9** marks

Time limit: **30 minutes**

You need:

This **question** and **answer paper** ✓

A **pen** with black or blue ink ✓

A **pencil** and an **eraser** ✓

You cannot use:

The **Internet**

A **calculator**

Instructions

1. Check your name is correct on Page 1
   Write your **signature** if it is

2. **Read** each text and question carefully

3. **Write** your answers in the spaces provided

   Answer: [   ]

4. Answer **all** the questions
   Remember to show your **workings**

5. **Check** your work at the end

6. Ask your teacher for more **paper** if you need it.
   Write your name on any extra pieces of paper.

7 Your teacher will **collect** your paper at the end of the assessment

RFSME3SAM01

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Question 1 **(1 mark)**

Work out 53 x 8.

Question 2 **(2 marks)**

Jadon is dancing in a show.

This is the timetable for the show.

Order of activities	Time taken
Group dances	25 minutes
Break	10 minutes
Solo dances	20 minutes
Award presentation	15 minutes

The show starts at **7.00pm.**

Jadon's dance will be the first **solo** dance.

What time will his dance start?

Show your calculations below.

Question 3 **(2 marks)**

The list shows the money made **this year** from ticket sales, programme sales and refreshments.

Ticket sales	£425.50
Programme Sales	£127.50
Refreshments	£178.00

How much money has been made **in total from these sales** this year?

Show your workings

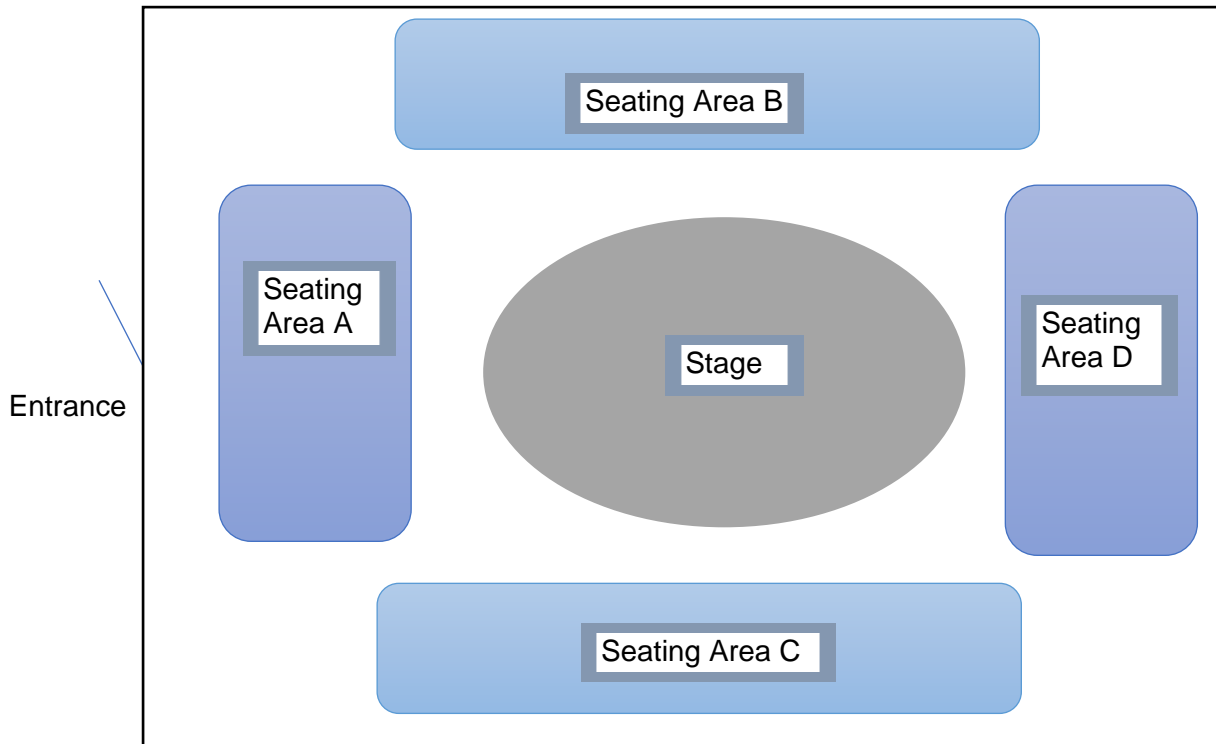**Question 4** **(1 mark)**

What is 178 - 149?

Show your workings.

Question 5 (3 marks)

This a plan of the stage and the seating for the show.

There are 586 seats in total in seating areas A, B, C and D.

There are 292 seats altogether in seating areas A and D.

There are 142 seats in seating area B.

How many seats are there in seating area C?

Show your workings.

End of Part A

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ENTRY LEVEL 3
FUNCTIONAL SKILLS
MATHS – PART B

QUESTION PAPER

SAMPLE ASSESSMENT MATERIAL

Learner name:	*Auto-filled by XAMS*
Learner number:	*Auto-filled by XAMS*
Your Signature:	
Today's date:	*Auto-filled by XAMS*

Total marks available: **27** marks

Time limit: **1 hour 15 minutes**

You need:
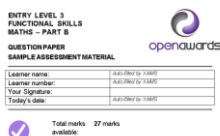
This **question** and **answer paper** ✓

A **pen** with black or blue ink ✓

A **pencil** and an **eraser** ✓

A **calculator** (non-scientific) ✓

RFSME3SAM01

You cannot use:

The **Internet**

Instructions

1. Check your name is correct on the front page.
   Write your **signature** if it is.

2. **Read** each text and question carefully

3. **Write** your answers in the spaces provided

   Answer: [   ]

4. Answer **all** the questions.
   Remember to show your **workings.**

5. **Check** your work at the end

6. Ask your teacher for more **paper** if you need it.
   Write your name on any extra pieces of paper.

7 Your teacher will **collect** your paper at the end of the assessment
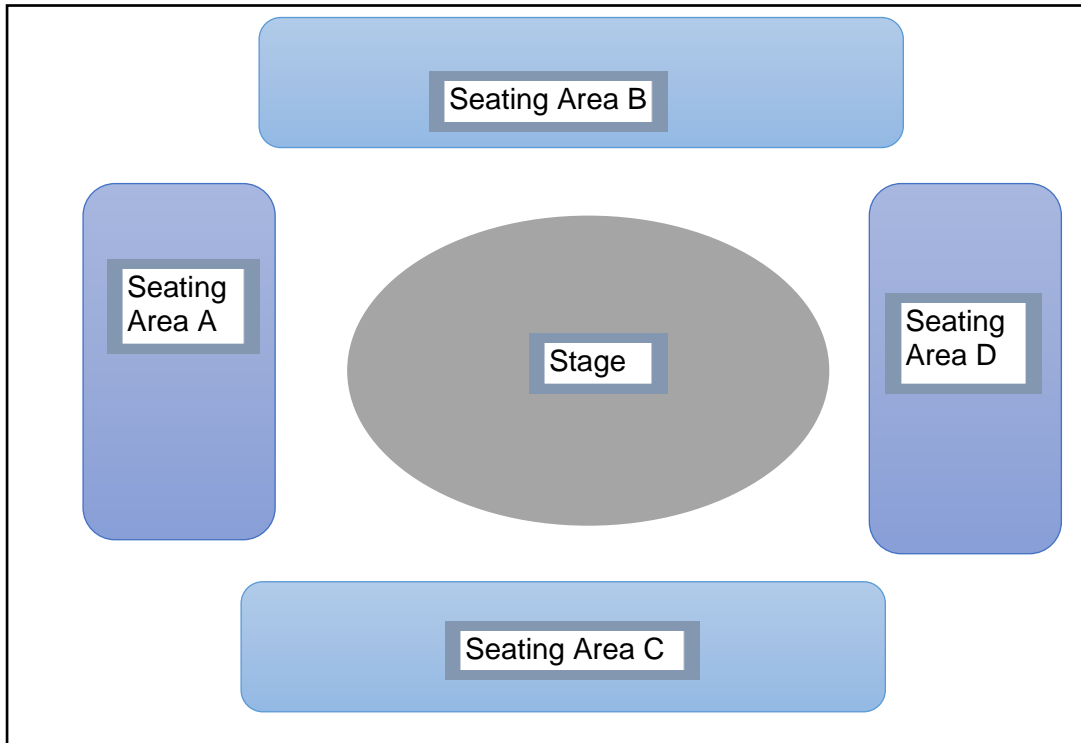
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Question 6 (1 mark)

Jadon is on stage facing Seating Area B. He does a **clockwise quarter turn**.

Use the **stage plan** to work out which **seating area** he is now facing.

Write your answer here:

Question 7 (1 mark)

Complete the sequence of numbers below.

9	18	27					72

Question 8 (2 marks)

The leisure centre has 5 swimming pools.

Pool	Length
1	7400mm
2	850cm
3	8m
4	750cm
5	8100mm

Hanif wants to swim in the longest pool.

What is the length of the longest pool?

Question 9 (2 marks)

Hanif hopes to raise £650 from sponsors.

He has raised £322.60 on line and £247.85 in cash.

How much more must he raise to reach £650?

Show your workings.

Question 10 (3 marks)

Hanif wants to buy some goggles.

He chooses a pair of goggles that cost **£8.80**

He sees a special offer on this pair of goggles.

Special Offer!

¼

off the price of swimming goggles

Hanif thinks the goggles will cost **£6.00**

Is Hanif correct? Explain your answer.

Show your workings

Question 11

Meg's dog weighs **22kg**

She needs to know how much to feed her dog.

She uses this weight chart below to help her:

Dog's weight (kg)	Number of tins of food per year
10 – 14	320
15 – 19	480
20 – 24	640
25 – 29	800

There are **12 tins in each pack**

    a) How many **packs** will Meg need to buy for a year?   **(3 marks)**

Show your workings.

    b) A month later, the vet weighs the dog. He has **gained 100 grams** in weight.

(2 marks)

Meg thinks he now weighs over **23kg**.

Is Meg correct? Explain your answer.

Show your workings.

The dog walks **1.25 km** every day.

How far does he walk in a **week**?

Question 13 (2 marks)

The dog's water bowl holds **400ml** when full.

He should drink **half a litre** of water each day.

Will he need more water in the bowl before the end of the day?

Give a reason for your answer.

Question 14 **(1 mark)**

Sam manages a charity shop.

She makes a table to show when staff work.

Shifts	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Morning	Gill Aisha	Bob Sam	Juan Gill	Bob Aisha	Sam Gill	Juan Sam
Afternoon	Sam Juan	Aisha Gill	Bob Sam	Gill Juan	Juan Sam	Sam Bob

Complete the frequency table to show the number of shifts worked by each staff member.

Write your answer below.

Staff member	Frequency
Gill	
Aisha	
Sam	
Juan	
Bob	

Question 15 **(1 mark)**

Aisha decides to keep a **running total** of all the hours she works at the shop.

Complete the table to show her running totals for **week 5**.

Week Number	Hours Worked	Running Total
1	9.5	9.5
2	9.5	19
3	9.5	28.5
4	9.5	38
5	9.5	

Question 16 **(2 marks)**

Complete the table to show the rounded amounts.

Day of the Week	Amount of money taken	Amount rounded to nearest pound
Monday	**£57.67**	**£58**
Tuesday	**£85.11**	
Wednesday	**£53.50**	
Thursday	**£84.19**	
Friday	**£108.94**	
Saturday	**£96.60**	

Question 17 **(1 mark)**

Sam records the amount of money received from sales on each day of the week **over 10 weeks**.

This table shows her results.

Day of week	Amount in sales over 10 weeks
Monday	£790
Tuesday	£690
Wednesday	£728
Thursday	£791
Friday	£787
Saturday	£780

Sam thinks more money is received on Mondays.
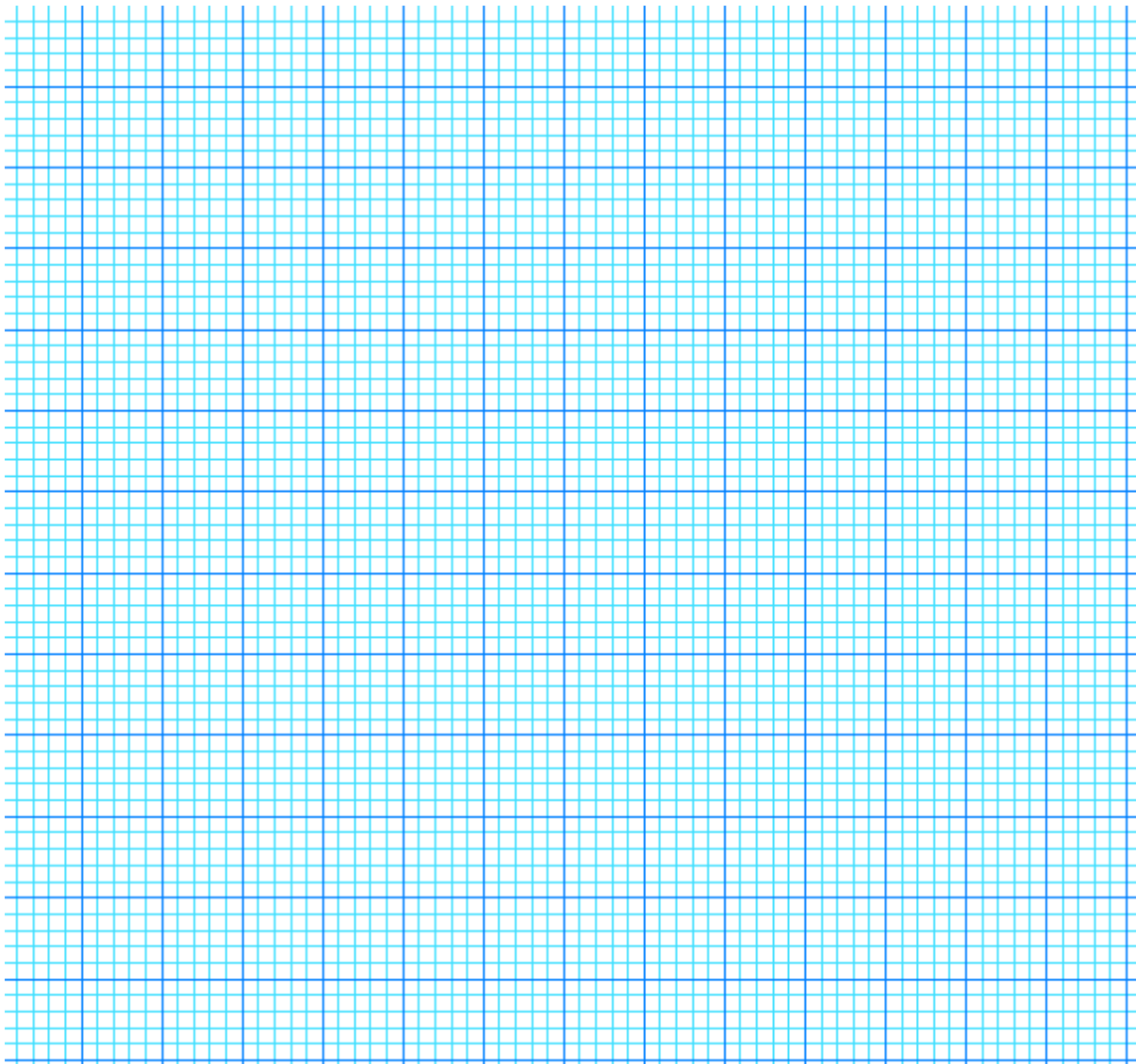
Is Sam correct? Explain your answer.

Question 18   **(4 marks)**

Sam wants to show staff how sales of different items compare. She makes a list of the sales of these items from one day. This is her list:

- Books - £27
- Clothes - £43
- Games - £38

Create a **graph or chart** to show this information in numerical order.

End of assessment

For Marker's Use Only

	Please tick
I **confirm** that the work/evidence submitted is the learner's own work	☐
I **understand** that learner results may be invalidated if evidence is submitted that does not belong to them	☐

Part	Marks available	Learner mark
A	9	
B	27	
Total	36	

Role	Name	Signature	Date
Marker			
IV (if sampled)			
EV (if sampled)			

Functional Skills Mark Scheme

Mathematics
Entry Level 3

General Marking Guidance

- Markers should apply the mark scheme consistently across all papers marked. Standardisation will take place to ensure this is confirmed.

- If a learner has crossed out a response to a question, the work should still be marked unless the learner has replaced it with an alternative answer.

- Markers should mark according to the mark scheme and should apply it positively awarding full marks where the answer meets the mark scheme.

- Where the answers do not meet the mark scheme, markers should be prepared to award zero marks.

- The mark scheme gives guidance as to how to allocate marks where an answer is graded according to learner performance. Where the response does not meet the requirements of the minimum mark, zero marks should be awarded.

- Where the mark scheme allows a mark for 'any (other) valid response', the marker should judge the response's merits based on the information provided in the assessment materials.

- Where the marker is unsure of how to apply the mark scheme, guidance from your Lead Quality Reviewer must be sought.

- Where the mark scheme has responses in brackets – (£)5.00, the learner will gain the mark whether or not the information within the brackets is present or not as long as the answer is correct.

- Some answers allow follow through marks where the learner has given an incorrect answer in a previous part of the task. If this is the case, the marker must check that the learner's answers are correct and should apply the format of the mark scheme to the learner's response.

- Assessment papers and mark schemes must be kept secure at all times.

- Should any issues or irregular practice arise that may put at risk the security of assessment papers or mark schemes – these will be reported to Open Awards immediately.

Pass Mark: 24

Conducting the Assessment and Support for Learner

- Learners can take the assessment when they, and the tutor, feel they are ready.
- At this level tutors may read the questions to the learners. The tutor may explain words and phrases if the learners do not understand them.
- Calculators are not permitted for Section A.
- Non-scientific calculators are allowed only for Section B.
- The assessment should take place under supervised conditions and conducted on a one to one basis or within a group.
- The assessment may be split up into shorter tasks to meet the needs of the learners, but the total time taken should not exceed one hour and forty-five minutes. This should be requested via the Open Awards Reasonable Adjustment and Special Considerations Policy.
- Realia such as coins and notes may be used if required for the relevant questions.

Marking of the Assessment

Centres must mark in accordance with the Open Awards mark scheme below.

Part A – 9 Marks

Question Number	Question	Evidence Required (marks)	Maximum Marks	PS or US	Subject Content
1	Work out 53 x 8.	Correct answer = 424	1	US	4
2	Jadon is dancing in a show. This is the timetable for the show. <table><tr><td>Order of activities</td><td>Time taken</td></tr><tr><td>Group dances</td><td>25 minutes</td></tr><tr><td>Break</td><td>10 minutes</td></tr><tr><td>Solo dances</td><td>20 minutes</td></tr><tr><td>Award presentation</td><td>15 minutes</td></tr></table> The show starts at **7.00pm.** Jadon's dance will be the first **solo** dance. What time will his dance start?	Correct addition of total time = 25 mins + 10 mins = 35 minutes (1 mark) Correctly stating that Jadon's dance will start at 7.35(pm) (1 mark) Allow follow through based on incorrect addition. Both marks awarded for correct response. Accept correct time being presented in alternative formats (i.e. 25 to 8, 1935, etc.)	2	PS	12
3	How much money has been made **in total from these sales** (tickets £425.50, programmes £127.50, refreshments £178.00) this year?	Use addition 425.50 + 127.50 + 178 (1 mark) Correct addition of total = (£)731 (1 mark)	2	US	10a
4	What is 178 - 149?	Correct subtraction: 178-149 = 29 (1 mark)	1	US	2b

| 5 | There are 586 seats in total in seating areas A, B, C and D.

There are 292 seats altogether in seating areas A and D.

There are 142 seats in seating area B.

How many seats are there in seating area C? | Correctly identifying the need to minus 292 from 586 (1 mark)

Correctly identifies the need to minus 142 from 294 or adds 292 + 142 and completes the subtraction (1 mark)

Correct answer = 152 (1 mark)

Award 3 marks if only correct answer seen. | 3 | PS | 2b |

Part B – 27 Marks

Question Number	Question	Evidence Required (marks)	Maximum Marks	PS or US	Subject Content
6	Jadon is on stage facing Seating Area B. He does a **clockwise quarter turn**. Use the **stage plan** to work out which **seating area** he is now facing.	He must face seating area D	1	PS	20a
7	Complete the sequence of numbers below. 9 18 27 ___ ___ ___ ___ 72	Completed sequence i.e. 36, 45, 54, 63	1	US	6
8	The leisure centre has 5 swimming pools. 	Pool	Length
1	7400mm
2	850cm
3	8m
4	750cm
5	8100mm | Hanif wants to swim in the longest pool. What is the length of the longest pool?	1 mark if pool 2 or 850 identified 2 marks for 850cm (must have units)	2	PS	15

| 9 | Hanif hopes to raise £650 from sponsors.

He has raised £322.60 on line and £247.85 in cash.

How much more must he raise to reach £650? | Correctly identifying the method required. Finding difference between numbers or subtracting 322.60 and 247.85 from 650 (1 mark)

Correct answer = £79.55 (1 mark)

Answer mark must use correct notation and record both decimal places.

Award 2 marks for correct answer seen. | 2 | PS | 10a |
| 10 | Pair of goggles **usually cost £8.80**
An offer shows ¼ off price of goggles.

Hanif thinks the goggles will cost **£6.00**
Is Hanif correct? Explain your answer. | Correctly calculating ¼ of £8.80 = £2.20 (1 mark)

Subtracting £2.20 from £8.80 = £6.60 (1 mark)
Allow follow through for incorrect calculation of ¼ of £8.80.

Accept alternative calculation ¾ of £8.80 (2 marks)

Correct interpretation that Hanif is incorrect (1 mark)

Allow follow through based on incorrect calculations.
No marks will be given for a "no" answer with no calculations. | 3 | PS | 7 |

11a	Meg's dog weighs 22.5kg She needs to know how much to feed her dog. She uses this weight chart below to help her: Dog's weight (kg) Number of tins of food per year 10 - 14 320 15 - 19 480 20 - 24 640 25 - 29 800 There are 12 tins in each pack How many packs will Meg need to buy for a year? Show your workings.	Recognising that the dog needs 640 tins each year (1 mark)	1	PS	21a
		Calculating that 640/12 = 53.333 (or 53 remainder 4) (1 mark) Correctly interpreting that 54 packs will be needed. (1 mark) Award 3 marks for correct answer seen	2		3
11b	A month later, the vet weighs the dog. He has **gained 100 grams** in weight. Meg thinks he now weighs over **23kg**. Is Meg correct? Explain your answer.	Correctly identifying that 100g = 0.1kg (1 mark) Explanation that she is not correct because the dog must now weigh 22.6kg (1 mark) Accept similar wording which refers to the dog's weight.	2	PS	16
12	The dog walks **1.25 km** every day. How far does he walk in a **week**?	Multiplying 1.25 by 7 (1 mark)	1	US	8
		Correct answer = 8.75 (km) (1 mark) Award 2 marks if only correct answer recorded.	1		4

13	The dog's water bowl holds **400ml** when full. He should drink **half a litre** of water each day. Will he need more water in the bowl before the end of the day? Give a reason for your answer.	A reason that recognises that 400 ml is less than half a litre (1 mark) Correctly stating that the bowl will need more water (1 marks) No marks should be awarded if a valid reason is not given.	2	PS	17
14	How many shifts does Sam work with Bob?	<table><tr><td>Staff member</td><td>Frequency</td></tr><tr><td>Gill</td><td>5</td></tr><tr><td>Aisha</td><td>3</td></tr><tr><td>Sam</td><td>7</td></tr><tr><td>Juan</td><td>5</td></tr><tr><td>Bob</td><td>3</td></tr></table>	1	PS	21c
15	Aisha decides to keep a **running total** of all the hours she works at the shop. **Complete** the table to show her running totals for **week 5**	Correct answer seen 47.5	1	PS	9
16	Complete the table to show the rounded amounts (to nearest pound).	All amounts rounded to nearest pound (2 marks) Tuesday £85, Wednesday £54, Thursday £84, Friday £109, Saturday £97 3 or 4 correct entries (1 mark)	2	US	11
17	Sam thinks more money is received on Mondays. Is Sam correct? Explain your answer.	Answer with explanation e.g. No. £791 on Thursdays or No, more money is received on Thursday Allow mark for No and any valid explanation	1	PS	1b

| 18 | Sam wants to show staff how sales of different items compare. She makes a list of the sales of these items from one day. This is her list:

• Books - £27
• Clothes - £43
• Games - £38

Create a **graph or chart** to show this information. | Appropriate scale selected and represented on vertical axis (1 mark)
and
Appropriate labelling of key elements of graph or chart (use of either key or labels to indicate what the bars represent) (1 mark), eg clothes, games, books
and
3 lines or bars plotted accurately and correspond to numbers on list. (1 mark)
Organised in ascending or descending order (1 mark)

A maximum of 4 marks available for this question. | 4 | PS | 23b |