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# Functional Skills Model Solutions

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## Pearson Edexcel Functional Skills – Entry 3

### Section A – Non-calculator

## Mathematics

Sample Assessment Materials  
for first teaching September 2019

Time: 25 minutes



Candidate name

Candidate signature

Date

### You must have a

- black or blue ink pen
- pencil
- ruler
- rubber.

### Instructions

- Answer every question.
- You can write or draw to show your answers.
- You must **not** use a calculator.

### Information

- The total number of marks for this section is 9.

### Advice

- Read each question carefully.
- Check your work at the end.
- Ask if you do not understand any words.

Turn over ►

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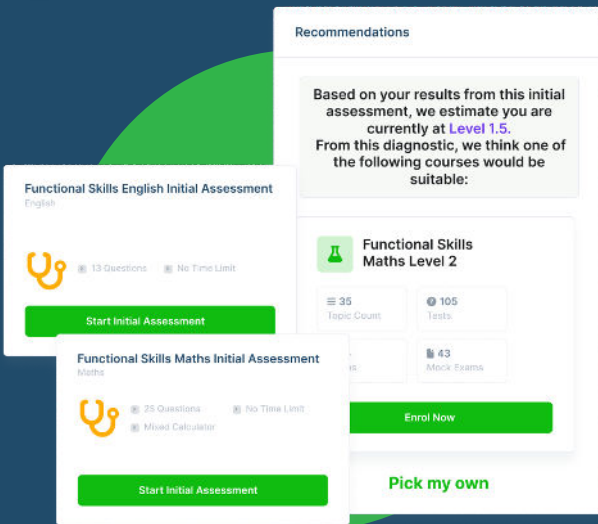


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Pearson

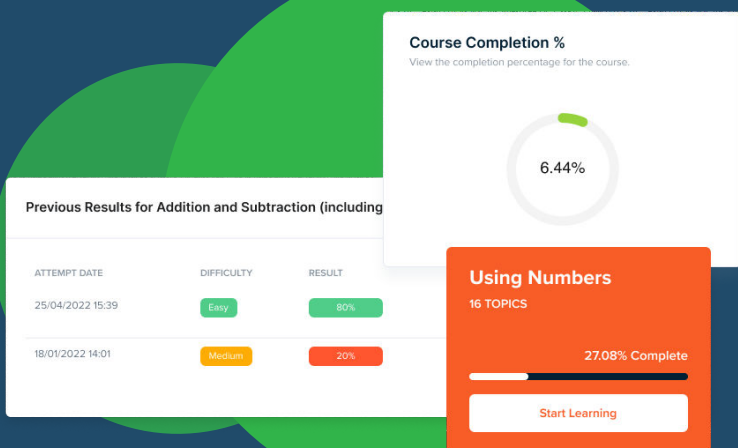
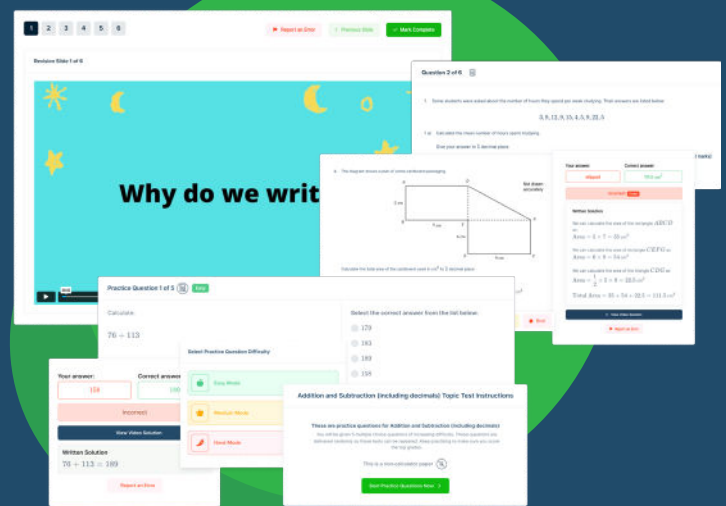


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1 Lyn moves to a new flat.

These are the amounts she spends each month on rent and bills.

Rent  
£679

Bills  
£138

Calculate the total of these amounts.

(2)

Show your working and your answer in the box below.

$$£679 + £138$$

$$\begin{array}{r}
 679 \\
 + 138 \\
 \hline
 817 \\
 \hline
 \end{array}$$

£ 817

2 Lyn puts DVDs on shelves.

She has 236 DVDs.

Each full shelf has 28 DVDs.

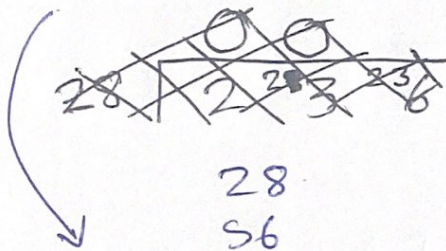
**How many full shelves of DVDs does Lyn have?**

**Show how many DVDs are left over.**

(3)

Show your working and your answer in the box below.

$$236 \div 28 = 8 \text{ full shelves} \\ \text{with } 12 \text{ DVDs} \\ \text{left over}$$



$$\begin{array}{r} 28 \\ 56 \\ 84 \\ 112 \\ 140 \\ 168 \\ 196 \\ 224 \leftarrow 8 \text{ full shelves} \\ 252 \end{array}$$

$$236 - 224 = 12 \text{ DVDs left over}$$

$$\begin{array}{r} \underline{\quad 8 \quad} \text{ full shelves of DVDs} \\ \underline{\quad 12 \quad} \text{ DVDs left over} \end{array}$$

3 Lyn pays for an internet contract.

**Internet contract**

£27 each month for 18 months

**How much will Lyn pay in total for the internet contract? (2)**

Show your working and your answer in the box below.

$$£27 \times 18$$

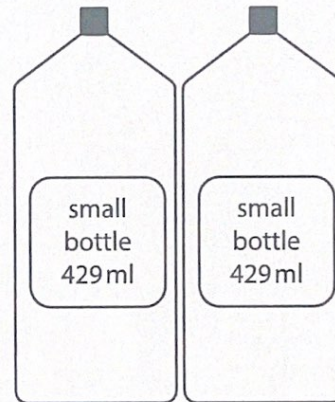
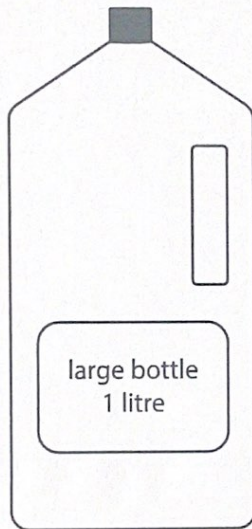
x	10	8
20	200	160
7	70	56

$$\begin{array}{r}
 200 \\
 160 \\
 + 70 \\
 \quad 56 \\
 \hline
 486 \\
 \hline
 \end{array}$$

£ 486

4 Lyn wants to buy cleaning liquid for the flat.

She can choose 1 large bottle or 2 small bottles.



**Does 1 large bottle have more liquid than 2 small bottles?**

**You must show your working.**

(2)

Show your working and your answer in the box below.

$$1 \text{ litre} = 1000 \text{ ml}$$

$$\begin{array}{r} 429 \\ + 429 \\ \hline 858 \\ \hline \end{array}$$

1000 is bigger than 858

Tick (✓) the correct answer.

Yes (✓) No ( )



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## Pearson Edexcel Functional Skills – Entry 3

### Section B – Calculator

## Mathematics

Sample Assessment Materials  
for first teaching September 2019

Time: 75 minutes



Candidate name

Candidate signature

Date

### You must have a

- black or blue ink pen
- pencil
- ruler
- rubber
- calculator.

### Instructions

- Answer every question.
- You can write or draw to show your answers.
- You may use a calculator.

### Information

- The total number of marks for this section is 27.

### Advice

- Read each question carefully.
- Check your work at the end.
- Ask if you do not understand any words.

Turn over ►

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1 Riya and her friends want to rent a flat.

They want the flat to be lower than the 5th floor.

They want a flat that costs between £875 and £925 per month.

Riya finds information about flats to rent.

**Which flat do they choose?**

(1)

Tick (✓) the correct answer.

Flat A  
6<sup>th</sup> floor  
Rent £919

( )

Flat B  
3<sup>rd</sup> floor  
Rent £895

(✓)

Flat C  
4<sup>th</sup> floor  
Rent £935

( )

Flat D  
2<sup>nd</sup> floor  
Rent £867

( )

Flat E  
7<sup>th</sup> floor  
Rent £900

( )

Flat F  
1<sup>st</sup> floor  
Rent £870

( )

2 Riya and her friends want to rent a flat with parking.

In their town, 3 of the 15 flats have parking.

Which fraction is equal to  $\frac{3}{15}$ ?

(1)

Tick (✓) the correct answer.

$$\frac{3}{5}$$

( )

$$\frac{15}{100}$$

( )

$$\frac{1}{5}$$

(✓)

$$\frac{1}{3}$$

( )

3 Riya wants to see a flat between 5:30 pm and 6 pm.

She chooses a time to see the flat.

When will Riya see the flat?

(1)

Tick (✓) the correct answer.

16 : 40

( )

15 : 40

( )

*This is  
5:40pm*

17 : 40

(✓)

05 : 40

( )

18 : 40

( )

06 : 40

( )

- 4 Riya needs to hire a van to move into her new flat.

Cost of van hire for one day (£)					
Size of van	Mon	Tue	Wed	Thu	Fri
small	73	65	73	61	85
medium	80	74	80	72	92
large	85	81	85	79	99

Riya wants to move before Thursday.

She wants to hire the largest van she can.

She wants to pay less than £75

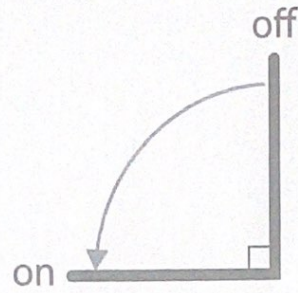
**What is the cost of the van Riya hires?**

(1)

Show your answer in the box below.

£ 74

- 5 The diagram shows how to turn on the water tap in the flat.



Riya turns the tap on.

**What fraction does she turn the tap?**

(1)

Show your answer in the box below.

One quarter or  $\frac{1}{4}$

- 6 A water meter shows how many units of water Riya and her friends use.

Riya reads the meter when they move in.

She reads the meter again after one month.

when they move in

789 units

after one month

820 units

**How many units of water did the friends use in one month?**

(2)

Show your working and your answer in the box below.

$$820 - 789 = 31$$

- 7 (a) Round 789 to the nearest 10

(1)

Show your answer in the box below.

790

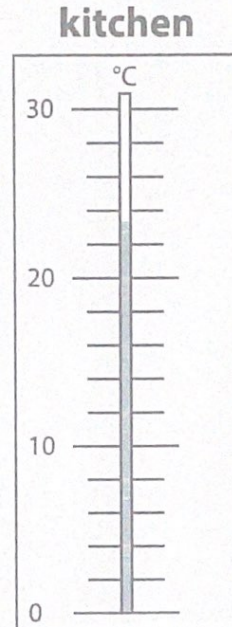
- (b) Use the rounded number to check your answer to Question 6

(1)

Show your check in the box below.

$$820 - 790 = 30$$

8 Riya looks at the temperature in the kitchen.



**What is the temperature in the kitchen to the nearest division?**

(1)

Show your answer in the box below.

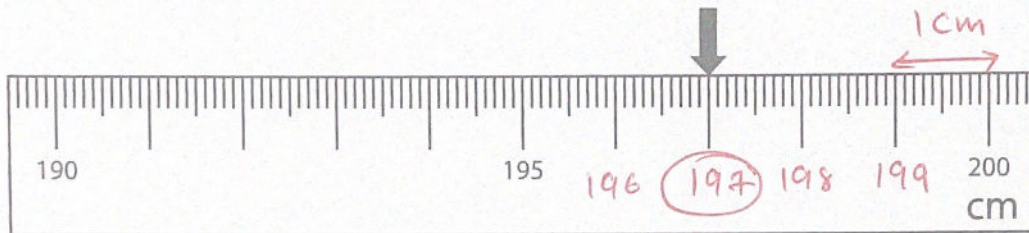
Each small line is  $2^{\circ}\text{C}$   
The line is closer to  $24^{\circ}\text{C}$  than  $22^{\circ}\text{C}$

24  $^{\circ}\text{C}$



9 Riya wants to put a cupboard and a table in the living room.

The arrow on the scale shows the width of a space in the living room.



The width of the cupboard is 1 m.

The width of the table is 84 cm.

**Will the cupboard and table fit in the space?**

(3)

**Show why you think this.**

Show your working and your answer in the box below.

$$\begin{aligned} \text{Cupboard} + \text{table} &= 1 \text{ m} + 84 \text{ cm} \\ &= 100 \text{ cm} + 84 \text{ cm} \\ &= 184 \text{ cm} \end{aligned}$$

$$\text{width of space} = 197 \text{ cm}$$

197 is bigger than 184

Tick (✓) the correct answer.

Yes (✓) No ( )

10 Riya wants to buy a bookshelf to fit under a window.

The bottom of the window is 1.43 m from the floor.

Riya buys the tallest bookshelf that will fit.

**Which bookshelf does Riya buy?**

(1)

Tick (✓) the correct answer.

### Bookshelf heights

1.3 m

( )

1.39 m

( )

1.35 m

( )

1.62 m

( )

0.95 m

( )

1.4 m

(✓)

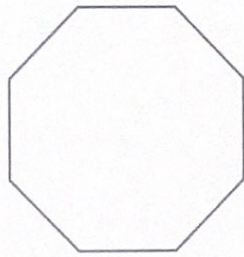
11 Riya wants to buy a mirror.

These are the shapes of some mirrors.

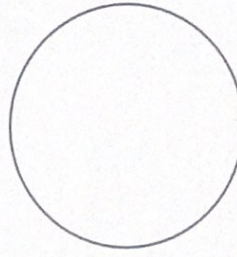
**Which one of these shapes has only one line of symmetry?**

(1)

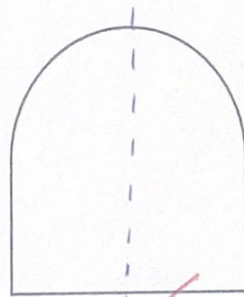
Tick (✓) the correct shape.



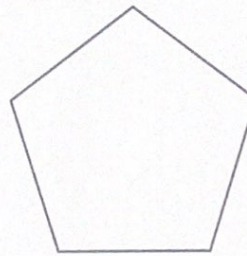
( )



( )



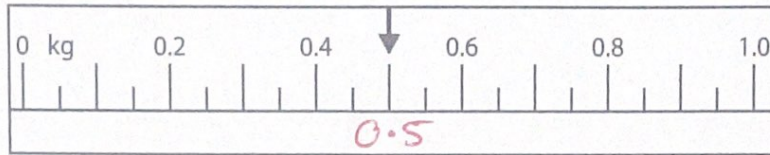
(✓)



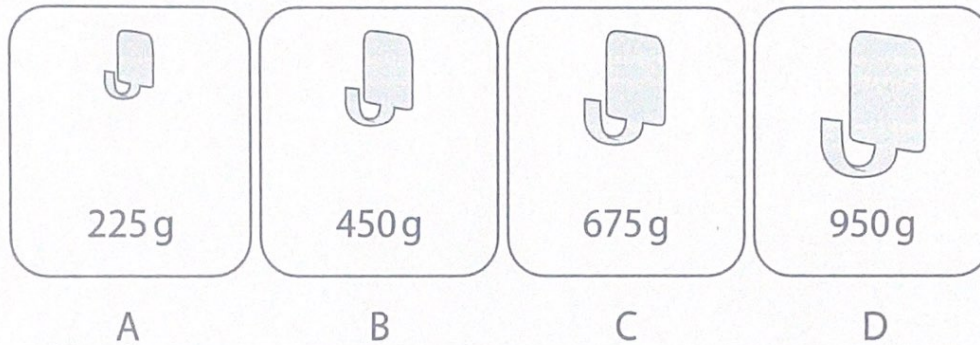
( )

12 Riya needs a hook to hang a picture on a wall.

She weighs the picture.



The labels show the heaviest weight each hook can hold.



Riya buys the smallest hook that will hold the picture.

**Which hook does Riya buy?**

**Show why you think this.**

(2)



Show your working and your answer in the box below.

Weight of picture = 0.5 kg = 500 g

Riya will buy the 675 g hook

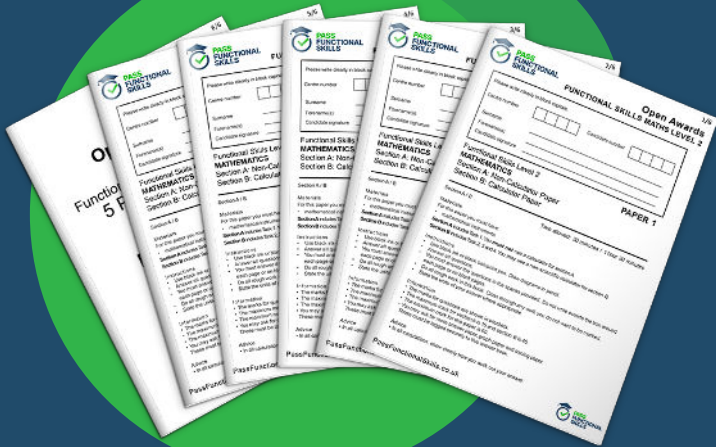
(hook C) since it is the smallest

hook that is bigger than (or equal to)

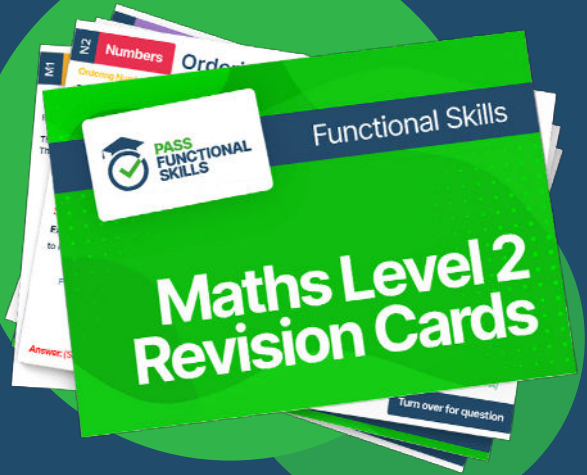
500 g



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**13** Riya wants curtains in her room.

These are the lengths of curtains in metres.

1.0 m  $\xrightarrow{+0.25}$  1.25 m  $\xrightarrow{+0.25}$  1.5 m  $\xrightarrow{+0.25}$  1.75 m

The lengths follow a pattern.

Riya wants the next length up from 1.5 m.

**What length of curtains will Riya buy?**

(1)

Show your answer in the box below.

The ~~sequence~~ pattern adds 0.25 m  
each time

$$0.25 + 1.5 = 1.75$$

1.75 m

**14** Riya and her friends pay bills each month.

Type of bill: Energy  
Date: 18<sup>th</sup> of the month  
Amount: £55

Type of bill: Water  
Date: 10<sup>th</sup> of the month  
Amount: £19

Type of bill: Internet  
Date: 21<sup>st</sup> of the month  
Amount: £27

Riya wants to show this information in a table.

**Organise this information in a table.**

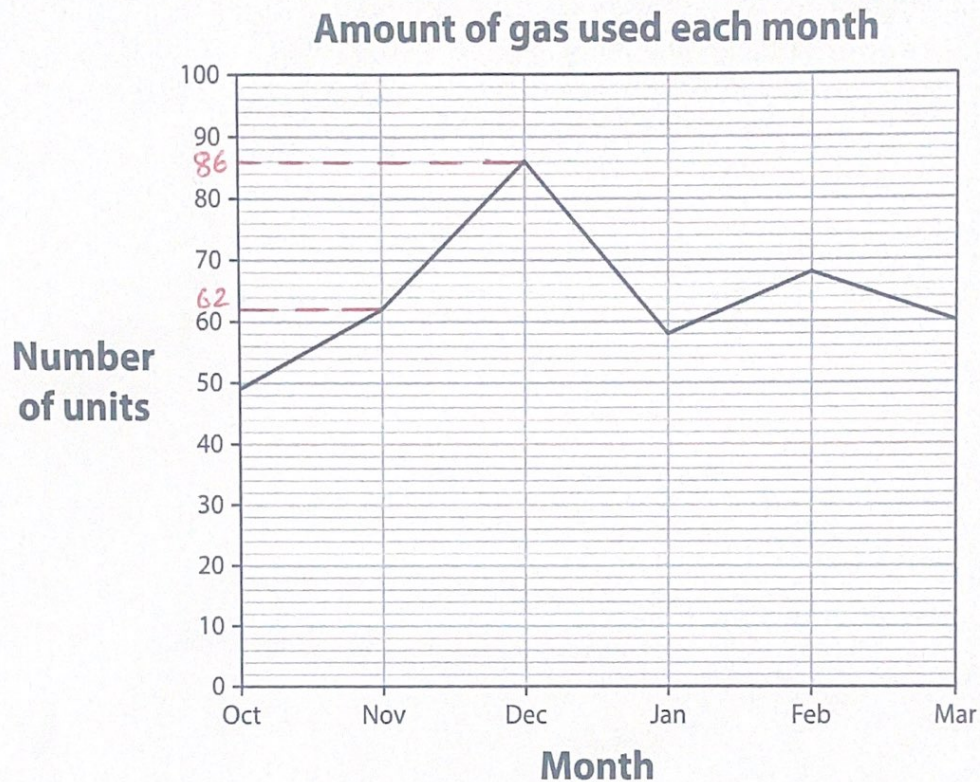
(1)

Show your answer in the box below.

Bills

Type of bill	Date	Amount
Energy	18 <sup>th</sup>	£55
Water	10 <sup>th</sup>	£19
Internet	21 <sup>st</sup>	£27

15 Riya sees this graph on a gas bill.



Riya says the total amount of gas used in November and December was more than 150 units.

**Is Riya correct?**

**Show why you think this.**

(3)

Show your working and your answer in the box below.

$$62 + 86 = 148 \quad 148 \text{ is less than } 150$$

Tick (✓) the correct answer.

Yes ( ) No (✓)



**16** Riya has a total of £60 to spend on food.

She spends £36.70

**How much money does Riya have left to spend?**

**Use correct money format.**

(3)

Show your working and your answer in the box below.

$$£60.00 - £36.70 = £23.30$$

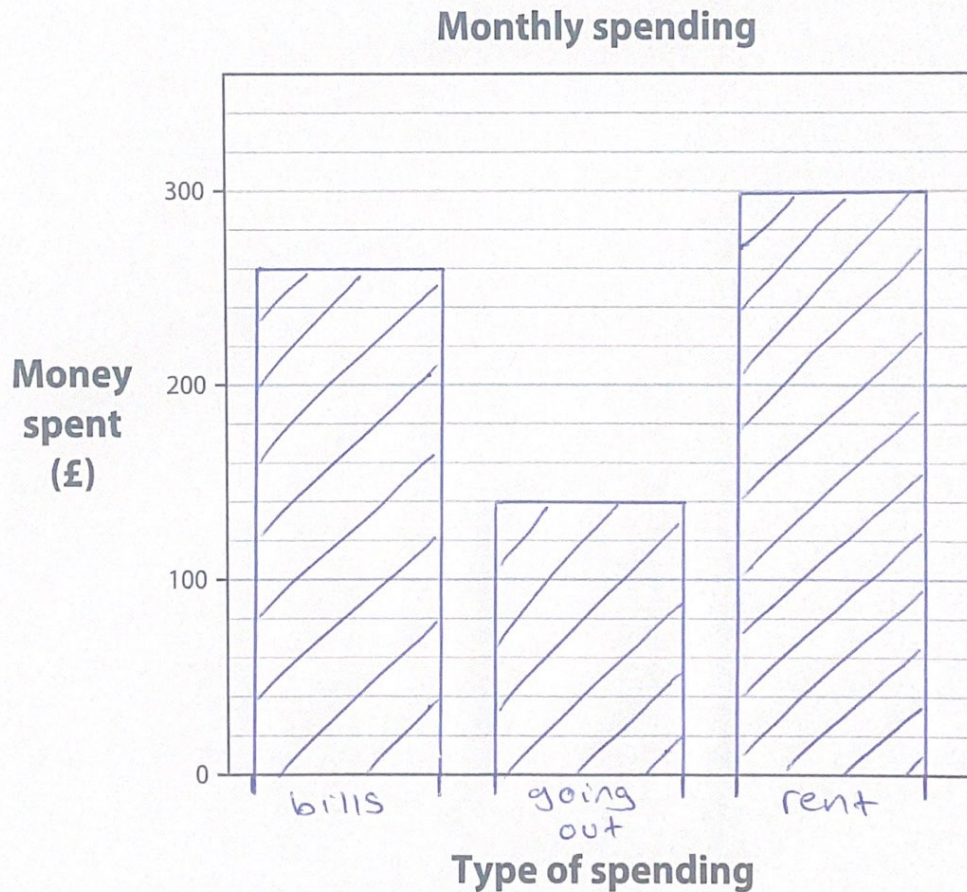
17 Riya shows her monthly spending in a table.

Type of spending	Money spent
bills	£260
going out	£140
rent	£300

The chart shows the monthly spending.

Complete the chart and use correct labels.

(1)



**18** Riya counts the different activities she does each month.

These are the results.

cinema	party	shopping	dancing	cinema
gym ✓	shopping	cinema	gym ✓	dancing
dancing	dancing	gym ✓	dancing	gym ✓
party	gym ✓	dancing	shopping	shopping

**Complete the frequency table for the results.**

(1)

Frequency table	
Activity	Frequency
party	2
shopping	4
cinema	3
gym	5
dancing	6