

Examination practice questions

You should have:

A ruler, protractor, compasses, a pen, pencil, eraser, calculator.
For some questions, you may need tracing paper.

Instructions

- Use **black** ink or ball-point pen.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**

Information

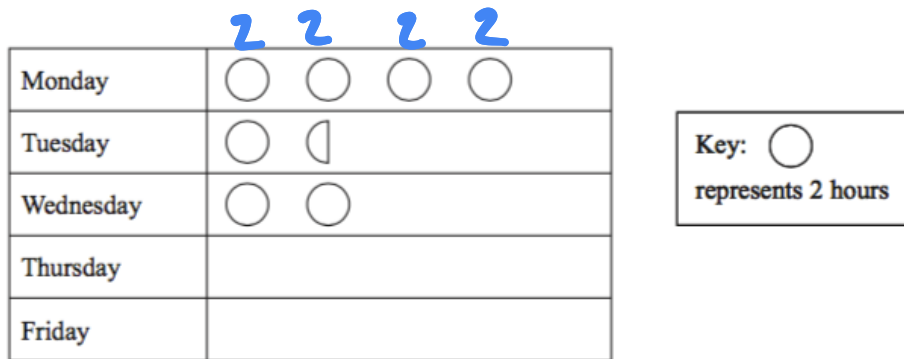
- The marks for each question are shown in brackets.
- If the number of marks for two similar questions isn't the same, this is likely due to them being modelled on different specifications. In this case, it is worth considering both mark schemes.
- Use the number of marks for each question as a guide as to how much time to spend on each question. As a rough guide, you can multiply the number of marks by 1.2 to see how many minutes you should spend on a question.
- Questions will generally get more challenging as the document progresses. Some of the latter questions will go beyond the core grade level for this topic.

Advice

- Read each question carefully before you start to answer it.
- Don't forget to have fun.
- Check your answers at the end.

Q1.

The pictogram shows the numbers of hours of sunshine in London on Monday, Tuesday and Wednesday of one week.

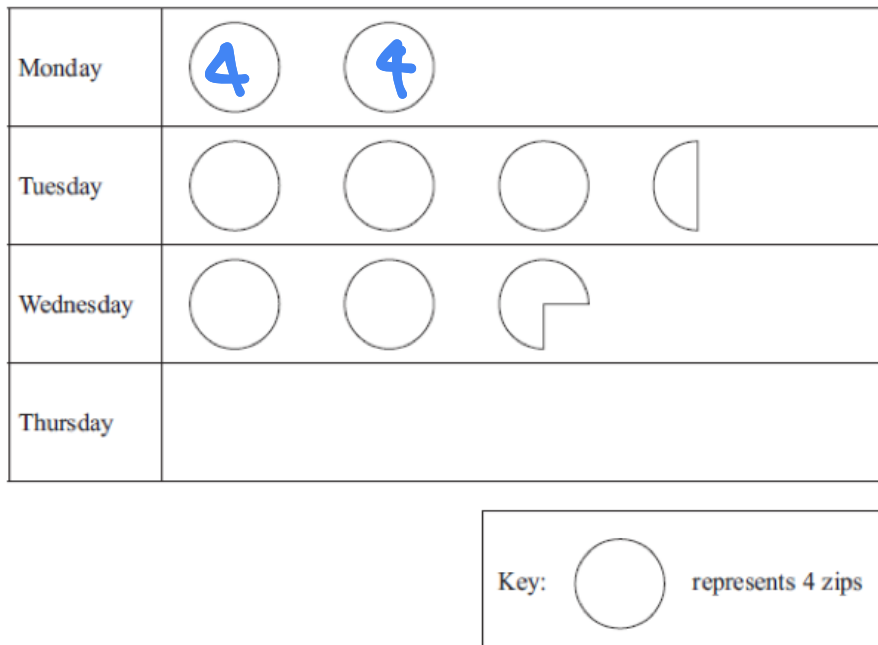


Work out the number of hours of sunshine on Monday.

.....
8
(1 mark)

Q2.

The pictogram shows the numbers of zips sold in a shop on Monday, on Tuesday and on Wednesday.



Write down the number of zips sold on Monday.

.....
8
(1 mark)

The pictogram gives information about the number of hours of sunshine on a Saturday and on a Sunday.

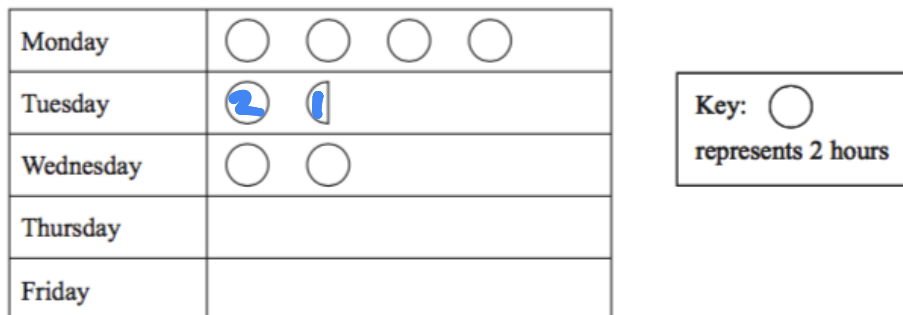


Work out the number of hours of sunshine on Saturday.

8

(1 mark)

The pictogram shows the numbers of hours of sunshine in London on Monday, Tuesday and Wednesday of one week.

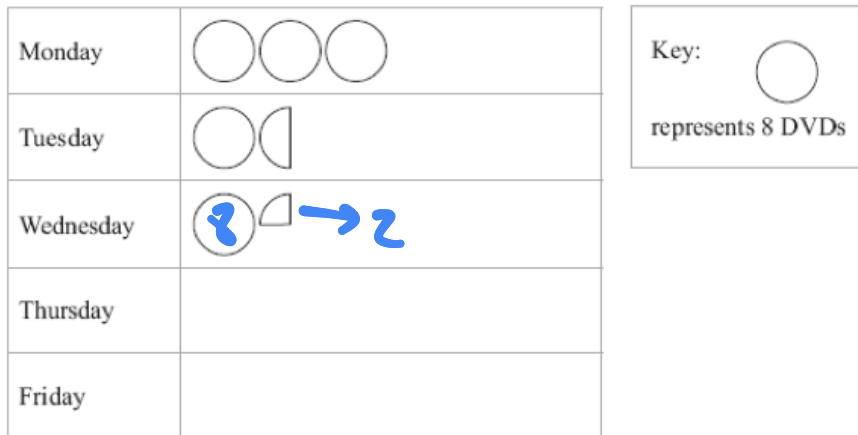


Work out the number of hours of sunshine on Tuesday.

3

(1 mark)

The pictogram shows the number of DVDs sold in a shop on Monday, on Tuesday and on Wednesday last week.

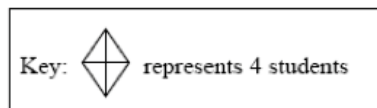
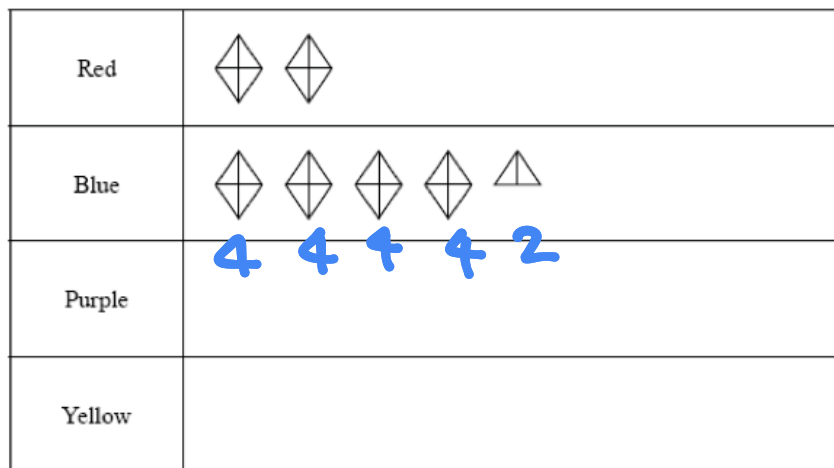


Write down the number of DVDs sold on Wednesday.

.....10.....
 (1 mark)

Jason asked some students what their favourite colour was.

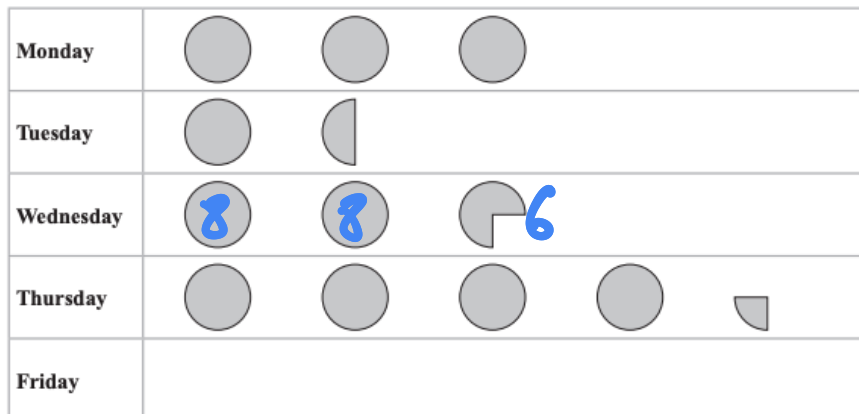
The pictogram shows information about the number of students whose favourite colour was red or blue.



Write down the number of students who said blue.

.....18.....
 (1 mark)

The pictogram gives information about the number of cakes Peony baked on Monday, on Tuesday, on Wednesday and on Thursday.



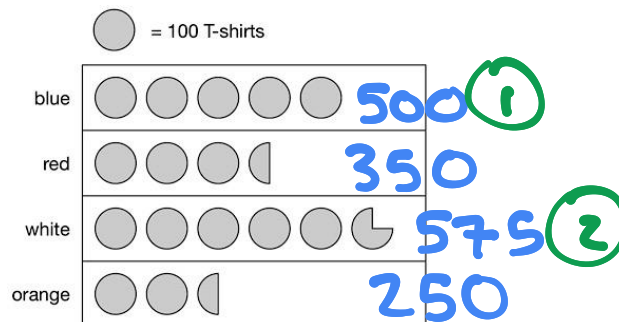
represents 8 cakes

How many cakes did Peony bake on Wednesday?

22

(1 mark)

A shop sells T-shirts.
This chart shows how many T-shirts were sold in a month.



Write the colours of the T-shirts that sold more than 400 in the month.

BLUE
WHITE

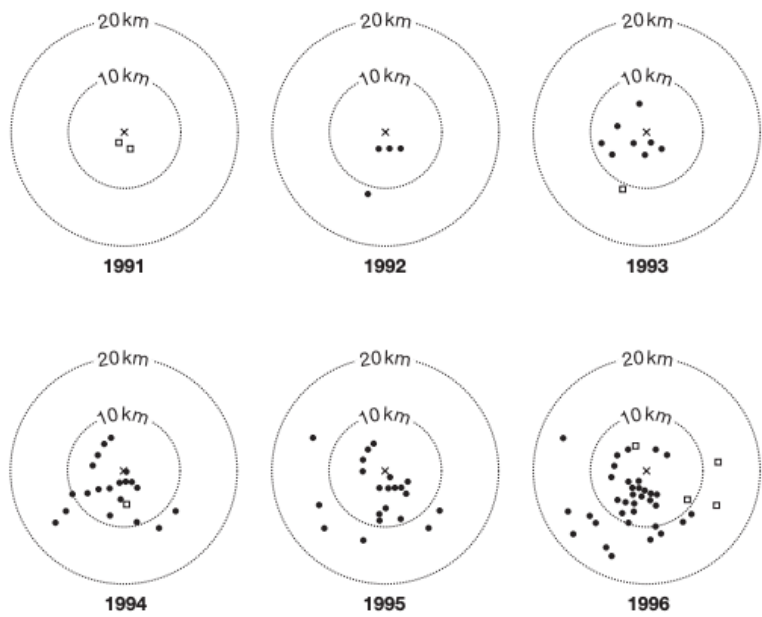
(1 mark)

Red Kites are large birds that were very rare in England.
Scientists set free some Red Kites in 1989 and hoped they would build nests.

The diagrams show how many nests the birds built from 1991 to 1996.

Key:

- × shows where the birds were set free.
- represents a nest without eggs.
- represents a nest with eggs.

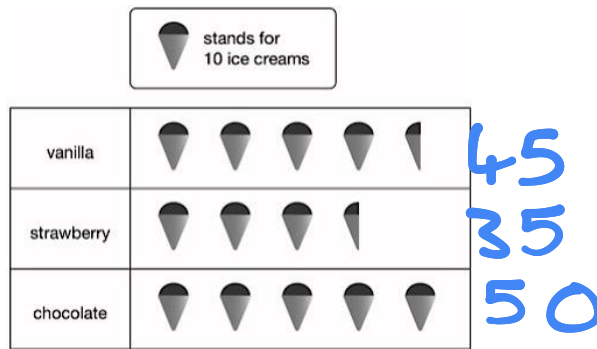


Explain what happened to the **number** of nests, over the years.

THEY INCREASED. ;

(1 mark)

This pictogram shows the number of ice creams a shop sold in one day.



How many **more** chocolate than strawberry ice creams were sold?

$$50 - 35 = 15$$

15

(1 mark)

140 drinks were sold in a coffee bar. A pictogram is to be drawn. The first four rows of the pictogram are shown below.

Drink Sales	
Coffee	○○○○○○○
Tea	○○○
Cola	○○○○○○○○○ <u>9</u>
Orange	○○○○
Hot Chocolate	

45 colas were sold.

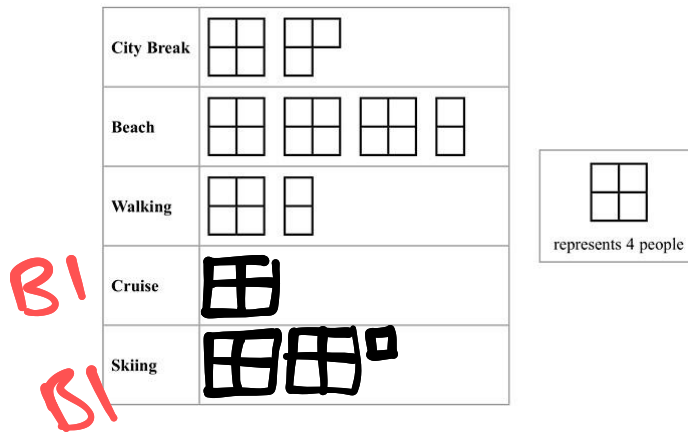
How many drinks does each circle represent?

$$\frac{45}{9} = 5$$

5

(1 mark)

40 people were asked to name their favourite type of holiday.
 The pictogram gives information about the number of these people who said each of City Break or Beach or Walking.

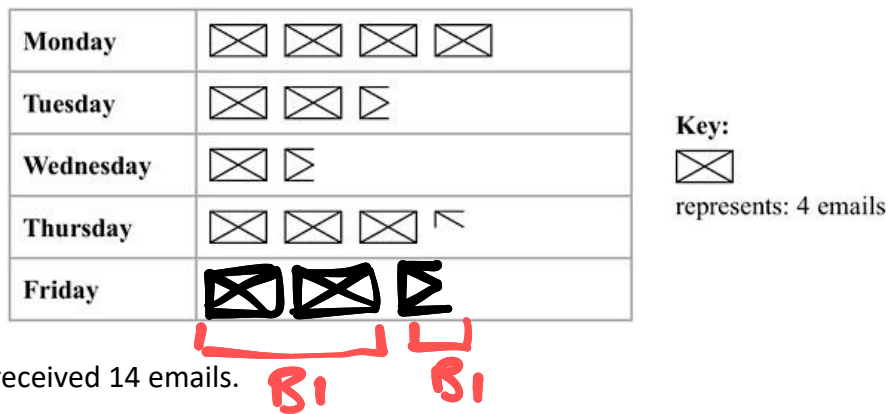


4 people said Cruise.
 9 people said Skiing.

Show this information on the pictogram.

(2 marks)

The pictogram shows information about the number of emails Sophie received on each of four days.

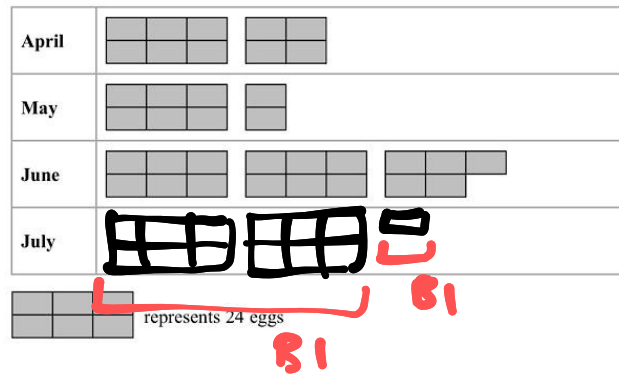


On Friday, Sophie received 14 emails.

Show this information on the pictogram.

(2 marks)

The pictogram gives information about the number of eggs laid by Ellie’s chickens in April, in May and in June.



Ellie’s chickens laid 52 eggs in July.

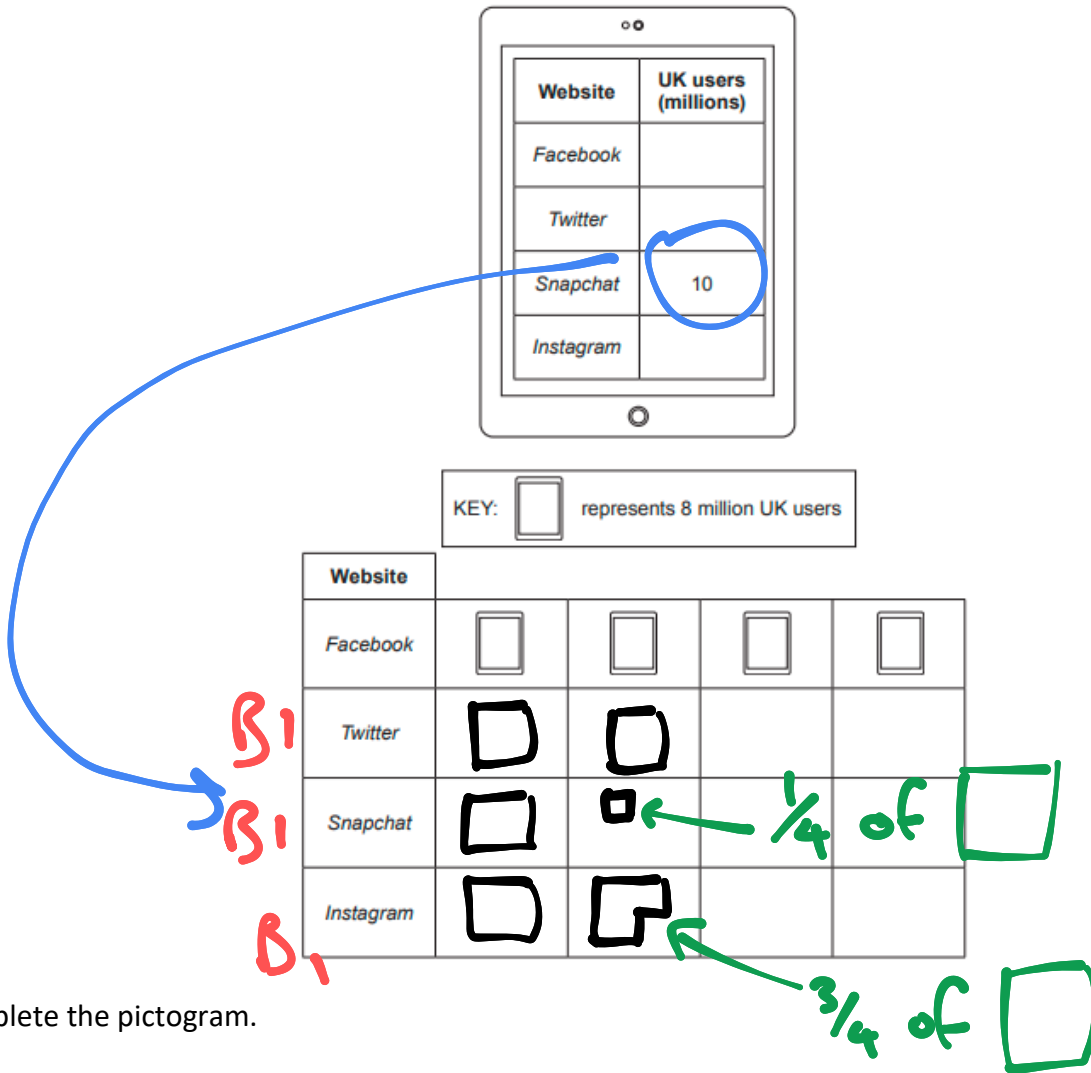
Show this information on the pictogram.

.....

(2 marks)

In the UK, in 2016, four popular social networking websites were used. A website listed approximately how many people used them. Some of the information can be found in the table and pictogram below.

- The number of people who used Twitter was half of the number of people who used Facebook.
- Four million more people used Instagram than used Snapchat.



Complete the pictogram.

The pictogram shows some information about the number of calculators sold in a shop on each of five days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

The shop sold 24 calculators on Wednesday.

Find the number of calculators sold on Thursday.

$$\frac{24^M}{3} = 8. \quad \begin{array}{|c|c|} \hline \square & \square \\ \hline \square & \square \\ \hline \end{array} = 8$$

$$8 \times 5 = 40$$




A.
40

.....
(2 marks)

George is making fruit smoothies.

The pictogram shows information about the number of each type of fruit he has.

Key:  represents 4 fruits

Oranges		18
Kiwi fruits		10
Bananas		7

This is the recipe for one smoothie.

3 oranges
2 kiwi fruits
1 $\frac{1}{2}$ bananas

Work out the maximum number of smoothies that George can make.

ORANGES $18/3 = 6$ SETS
 KIWIS $10/2 = 5$ SETS
 BANANAS $7/1.5 = 4$ SETS

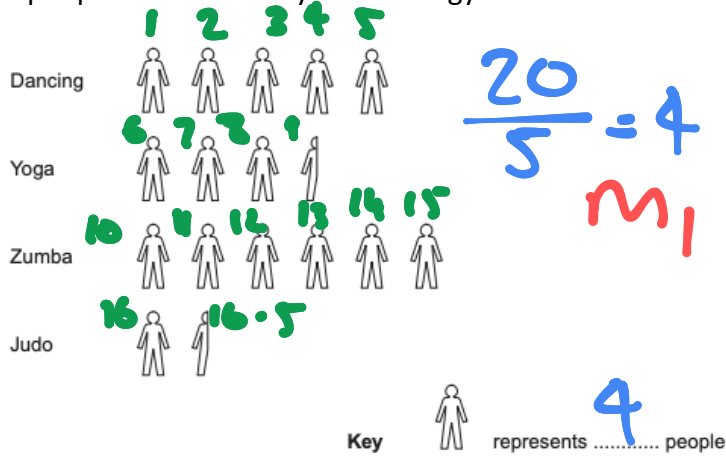
M1 FOR AN ATTEMPT AT SCALING.

AFTER 4 SMOOTHIES, GEORGE WILL RUN OUT OF BANANAS.

4
 (4 marks)

A1 CORRECT SCALING

The pictogram shows what people did when they went to a gym.



20 people did Dancing.

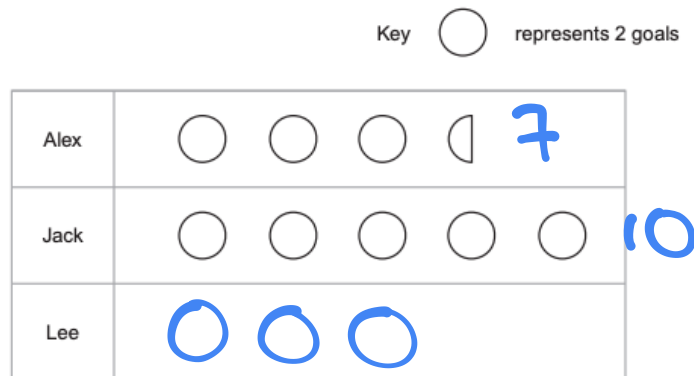
Altogether, how many people went to the gym?

$$4 \times 16.5 = 66$$

A1
66

(2 marks)

The pictogram shows the number of goals scored by Alex and Jack.



Lee scored 6 goals.

In the next match, Jack scores all the goals.
In total, he has now scored twice as many goals as Lee.

$$12 - 10 = 2$$

How many goals did Jack score in this match?

Has scores 12 B1

A1
2

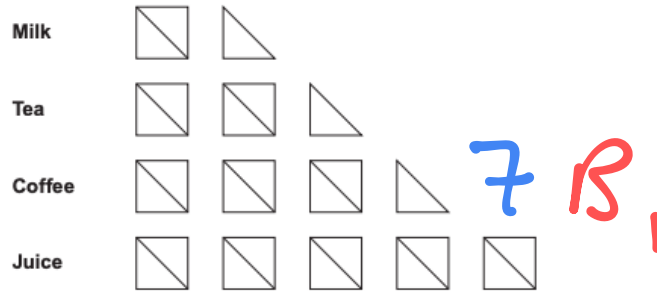
(2 marks)

The table shows the favourite drinks of 25 girls.

Drink	Milk	Tea	Coffee	Juice
Number of girls	9	7	4	5

The pictogram shows the favourite drinks of 25 boys.

Key  = 2 boys



How many **more** boys than girls prefer coffee?

$$7 - 4 = 3$$

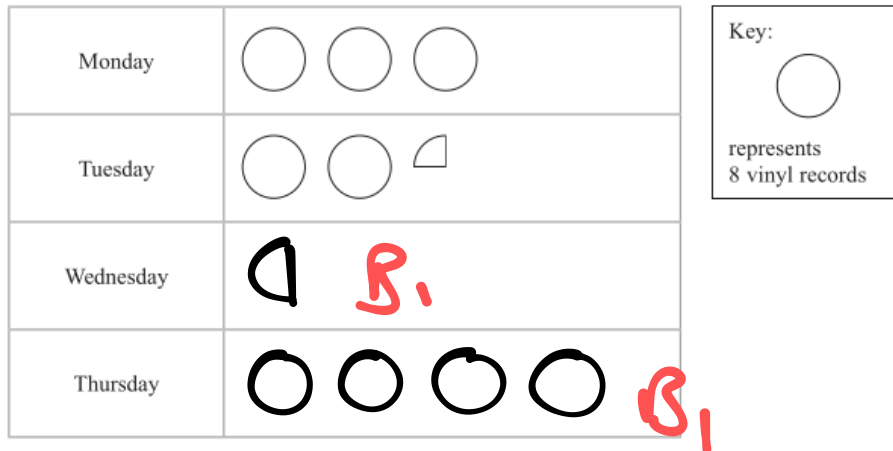
M,

A,

3 MORE

(3 marks)

The pictogram shows information about the number of vinyl records sold in a shop on Monday and on Tuesday.



On Wednesday and Thursday a total of 36 vinyl records were sold.
The number of records sold on Thursday was 8 times the number of records sold on Wednesday.

Use this information to complete the pictogram.

36

1 : 8

4 : 32

MIFOR
EITHER

.....

(3 marks)