## <u>AQA – Statistics – GCSE Mathematics Paper-1</u>

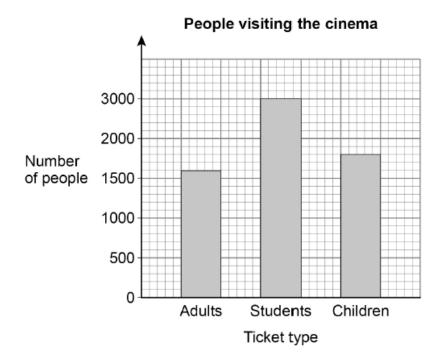
1. May/	/2020	/Paper	1F	/No.8
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Here is some information, by ticket type, about the number of people visiting a cinema one week.

	Key:	represents 40 people	
	Adults		
	Students		
	Children		
How ma	any children vis	ited the cinema?	[1 mark]
	Answ	/er	
How ma	any <b>more</b> stude	ents than adults visited the cinema?	[2 marks]
	Answ	ver	

(c) A bar chart is drawn to show the number of people visiting the cinema one month.

Ticket type	Number of people
Adults	1600
Students	3000
Children	1800



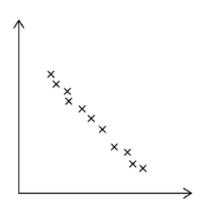
Give one criticism of the bar chart.

[1 mark]

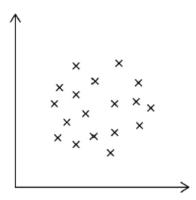
#### **2.** May/2020/Paper\_1F/No.20

A and B are scatter graphs.

Graph A



Graph B



What type of correlation is shown by each graph? Choose from

Weak positive

Strong positive

Weak negative

Strong negative

No correlation

[2 marks]

Graph A \_\_\_\_\_

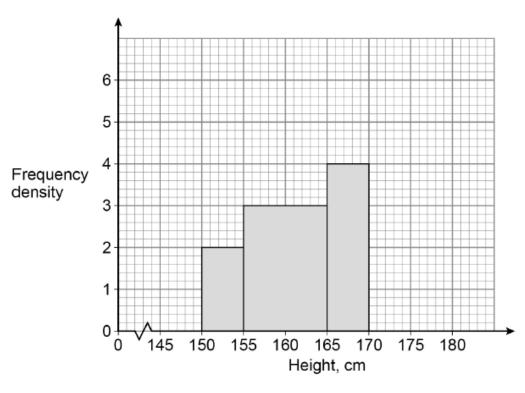
Graph B \_\_\_\_\_

# **3.** May/2020/Paper\_1H/No.25

A histogram is drawn to represent the heights of a sample of women.

Three of the four bars are shown.

The bar for  $170 \text{ cm} \leq \text{height} < 180 \text{ cm}$  is missing.



There are 74 women in the sample.

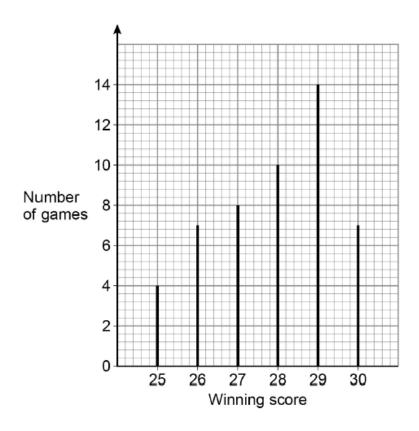
Complete the histogram.

	[4 marks
-	
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# **4.** June/2019/Paper\_1F/No.8(a)

A game is played 50 times.

The vertical line chart shows the winning scores.



(a)	Write	down	the	mode
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[1 mark]

Answer

## **5.** June/2019/Paper\_1F/No.18

Here is some data about the people listening to a radio station one day.

	Percentage	Mean number of hours listening	Range of number of hours listening
Aged 40 or under	21	1.2	4.5
Aged 41 or over	79	6.3	13.9

Compare the data for people aged 40 or under with the data for people aged 41 or over.

Make three comparisons.

[3 marks]

Comparison 1			
Comparison 2			
Comparison 3			

## **6.** June/2019/Paper\_1H/No.15

Here is some information about the test marks of 120 students.

Mark, m	0 < <i>m</i> ≤ 10	10 < <i>m</i> ≤ 20	20 < <i>m</i> ≤ 30	30 < <i>m</i> ≤ 40	40 < <i>m</i> ≤ 50
Frequency	20	28	40	20	12

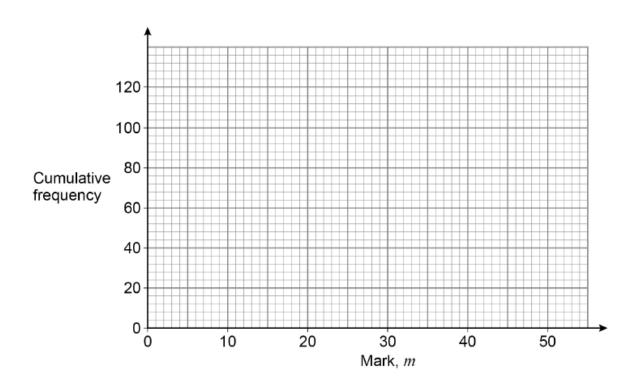
# (a) Complete the cumulative frequency table.

[1 mark]

Mark, m	<i>m</i> ≤ 10	<i>m</i> ≤ 20	<i>m</i> ≤ 30	<i>m</i> ≤ 40	<i>m</i> ≤ 50
Cumulative frequency	20	48			

# (b) Draw a cumulative frequency graph.

[2 marks]



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(c)	Students who scored 15 marks or fewer take another test.				
	Use your graph to estimate how many students take another test.	[2 marks]			
	Answer				

#### **7.** June/2019/Paper\_1H/No.19

You are given that 4a - 2b = 10

(a) Write down the value of 2a - b

[1 mark]

Answer \_\_\_\_\_

(b) Write down the value of 2b - 4a

[1 mark]

Answer \_\_\_\_\_

(c) You are given that 4a - 2b = 10 and a + c = 3

Write an expression in  $a,\,b$  and c that is equal to 23

Give your answer in its simplest form.

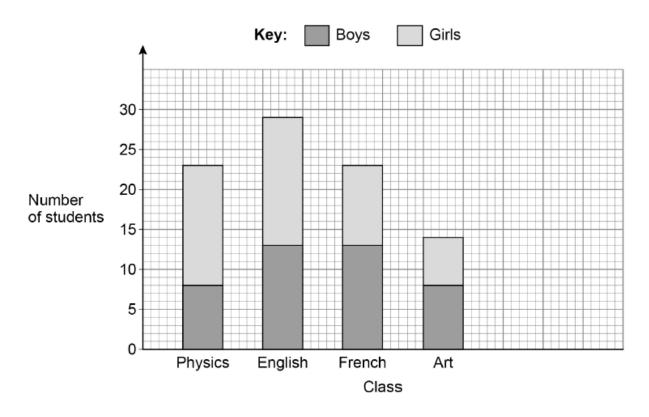
You **must** show your working.

[2 marks]

Answer \_\_\_\_

**8.** Nov/2019/Paper\_1F/No.6

The composite bar chart shows the number of students in some classes.



(a) How many boys are in the Physics class?

[1 mark]

Answer

(b) How many girls are in the English class?

[1 mark]

Answer \_\_\_\_\_

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(c)	Which <b>two</b> classes have the same total number of students?	[1 mark]
	Answer and	
(d)	In the History class	
	there are 18 students	
	number of boys = number of girls	
	Show this information on the bar chart.	[2 marks]

# **9.** Nov/2019/Paper\_1F/No.23

Which one of the following is discrete data?

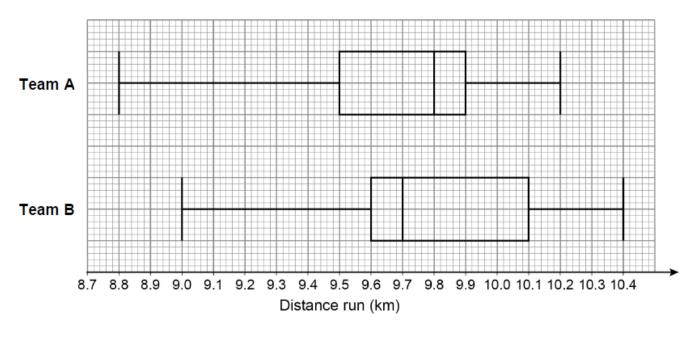
Circle your answer.

[1 mark]

length of arm height of door number of pets mass of sugar

## **10.** Nov/2019/Paper\_1H/No.19

The box plots represent the distances run by the players in a football match.



(a)	On average, which team's players ran further?
	Tick a box.

	Team A			Team B
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Give a	reason	TOI	your	answer.

		[1 mark]

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(b)	The players in Team A ran more consistent distances.				
	How do the box plots show this?	[1 mark			