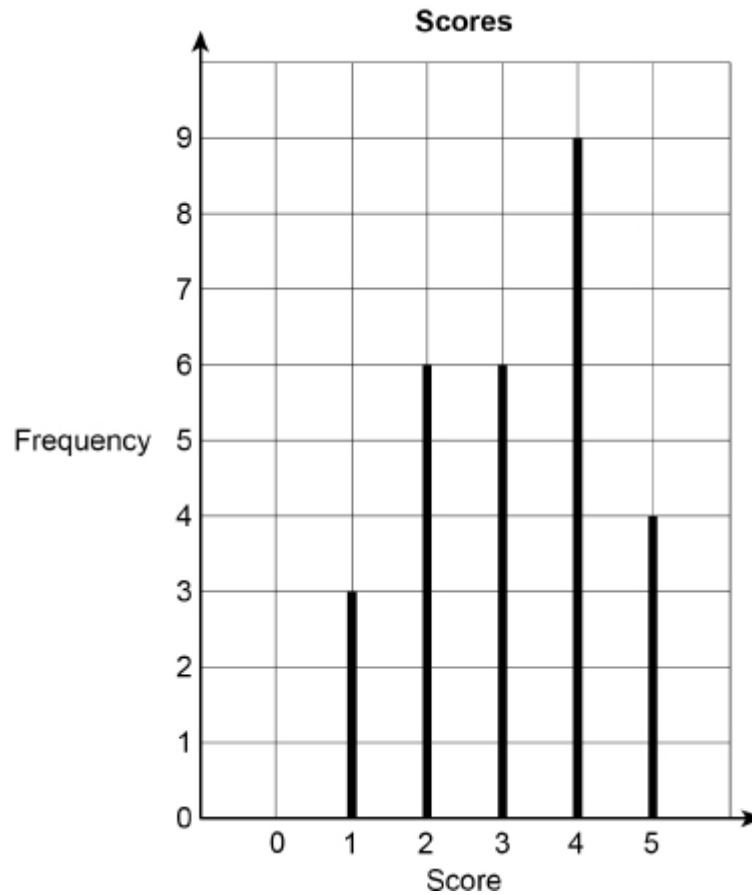


Non-Calculator

Q1.

The diagram shows the scores given by judges during a television show.



- (a) Which score was the mode?

Answer _____

(1)

- (b) There were 4 judges.
Each judge gave one score in each round.

How many rounds were there?

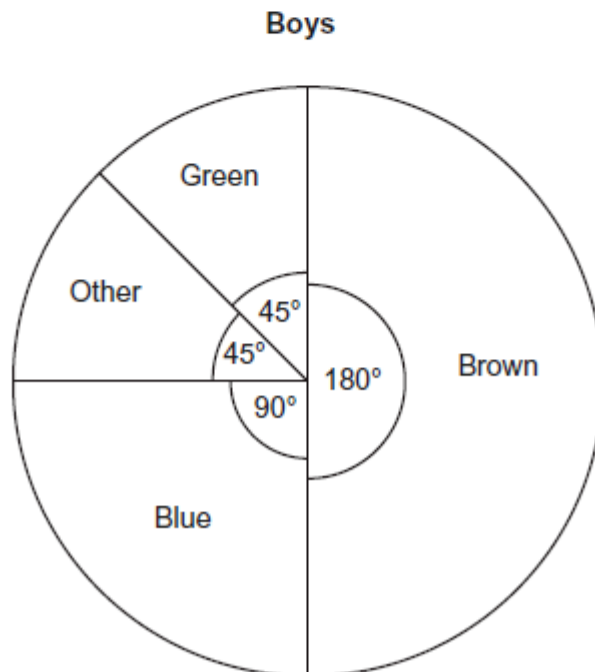
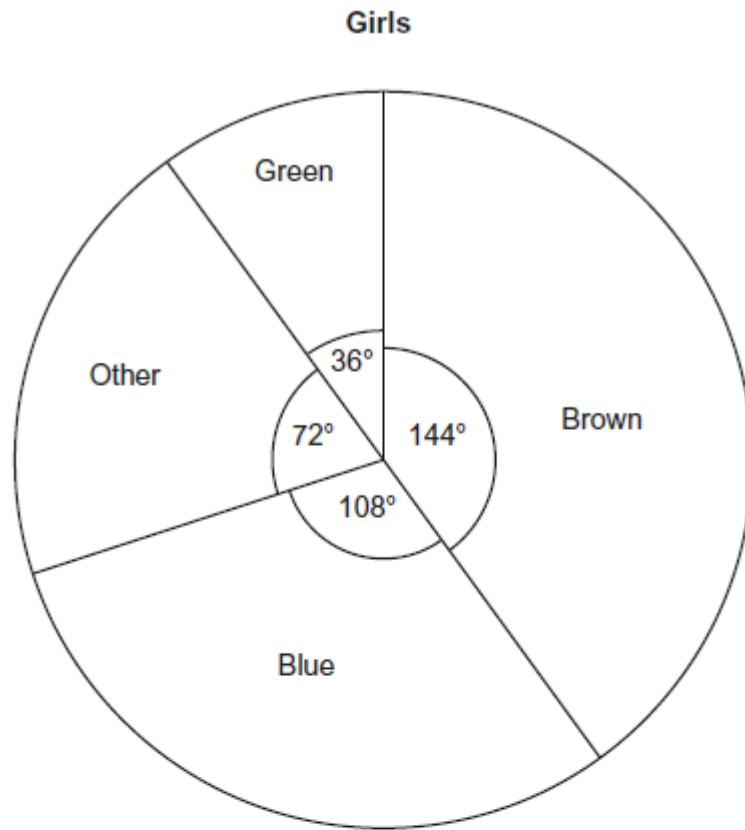
Answer _____

(3)

(Total 4 marks)

Q2.

The pie charts show the eye colour of some students.



The areas of the pie charts are proportional to the number of students.

The radius of the girls' pie chart is 5 cm
The radius of the boys' pie chart is 4 cm

5 girls have green eyes.

How many boys and girls altogether have blue eyes?

Answer _____

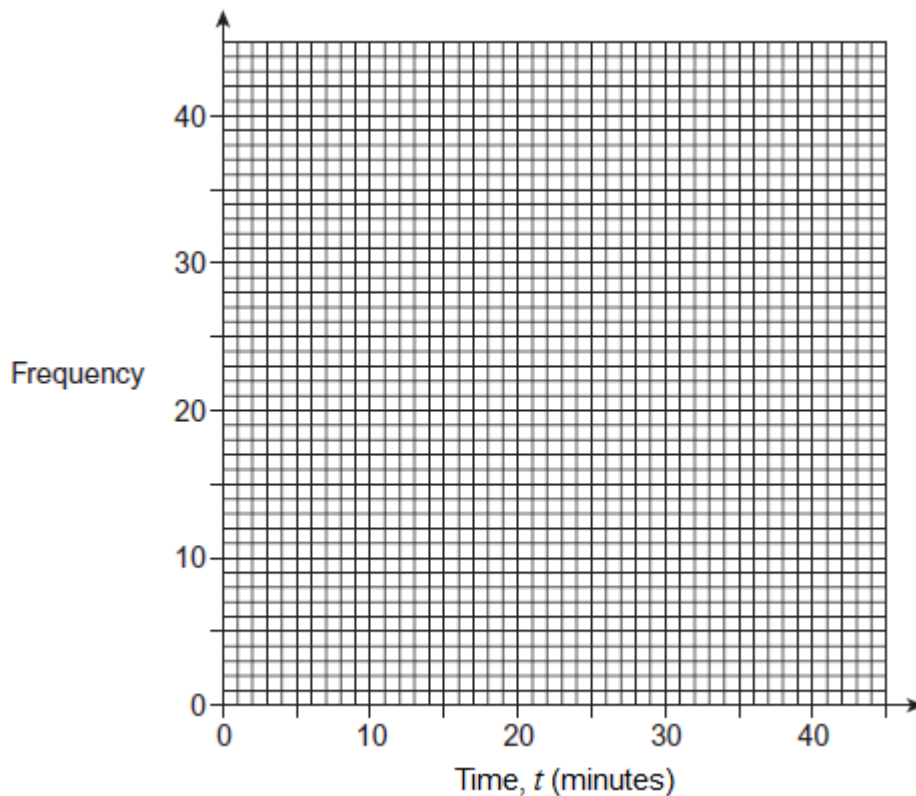
(Total 5 marks)

Q3.

The times taken by 100 students to travel to school are shown.

Time, t (minutes)	Frequency
$0 < t \leq 10$	36
$10 < t \leq 20$	34
$20 < t \leq 30$	18
$30 < t \leq 40$	12

- (a) Draw a frequency diagram for the data.



(2)

- (b) The school has 600 students.

Estimate how many students take more than 20 minutes to travel to school.

Answer _____

(2)

(Total 4 marks)

Q4.

Billy asked 20 people,

“What is your favourite crisp flavour?”

- (a) Complete the tally chart to show Billy’s results.

Favourite crisp flavour	Tally	Frequency
Plain		12
Cheese and Onion		
Barbecue		3
	Total	20

(2)

- (b) Billy uses his tally chart to draw a pictogram.

Complete the pictogram and the key.

Key: represents _____ people

Plain	
Cheese and Onion	
Barbecue	○ ◐

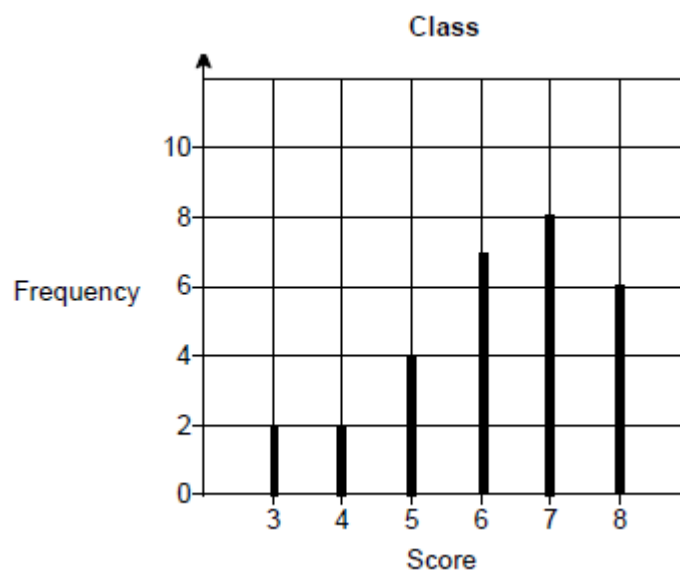
(3)

(Total 5 marks)

Q5.

Students in a class took a spelling test.

The diagram shows information about the scores.



Lucy is one of the 29 students in the class.

Her score was the same as the **median** score for her class.

Work out her score.

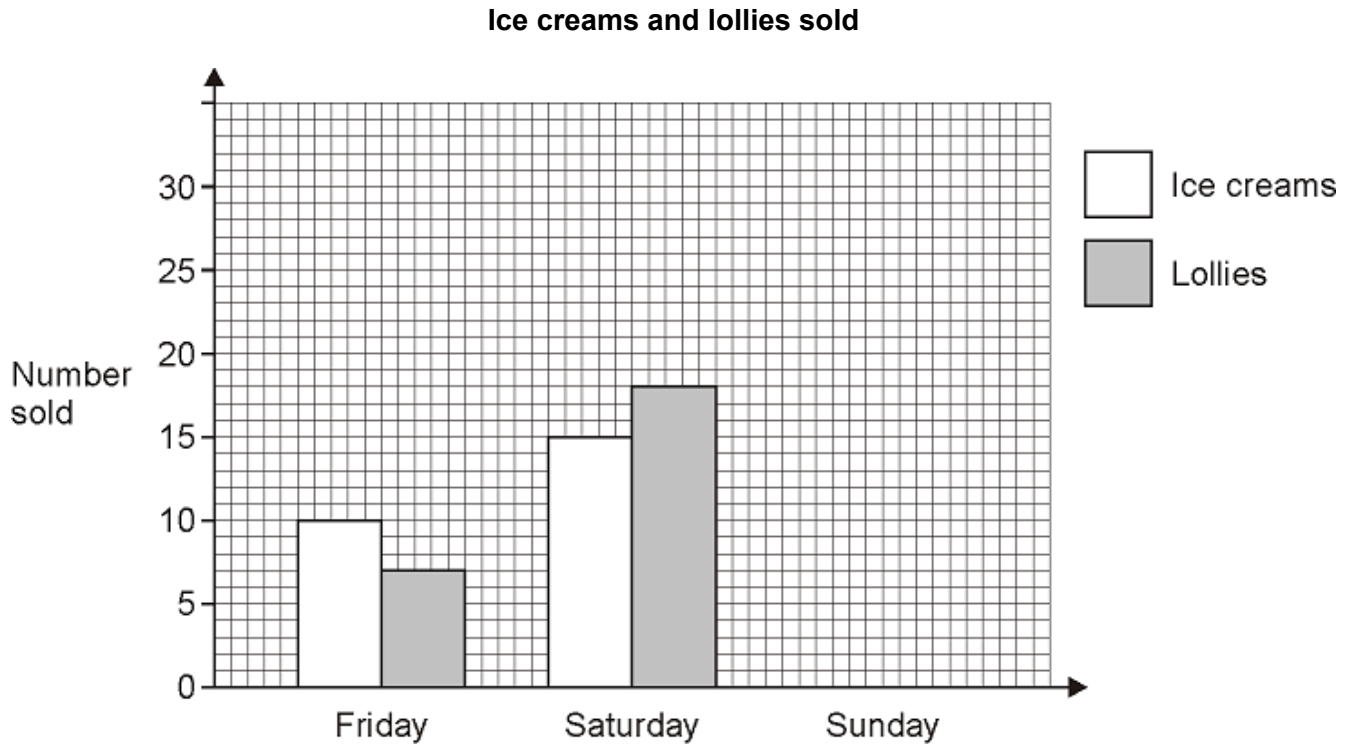
Answer _____

(Total 2 marks)

Q6.

Mira sells ice creams and lollies.

The bar chart shows the number sold on Friday and Saturday.



- (a) An ice cream costs £1.20
A lolly costs 80p.

How much money did Mira take from selling ice creams **and** lollies on **Friday**?

Answer £ _____

(3)

- (b) Mira sold ice creams and lollies on Friday, Saturday and Sunday. Altogether she sold 80.

On Sunday, she sold 2 **more** lollies than ice creams.

Complete the bar chart for Sunday.



(3)

(Total 6 marks)

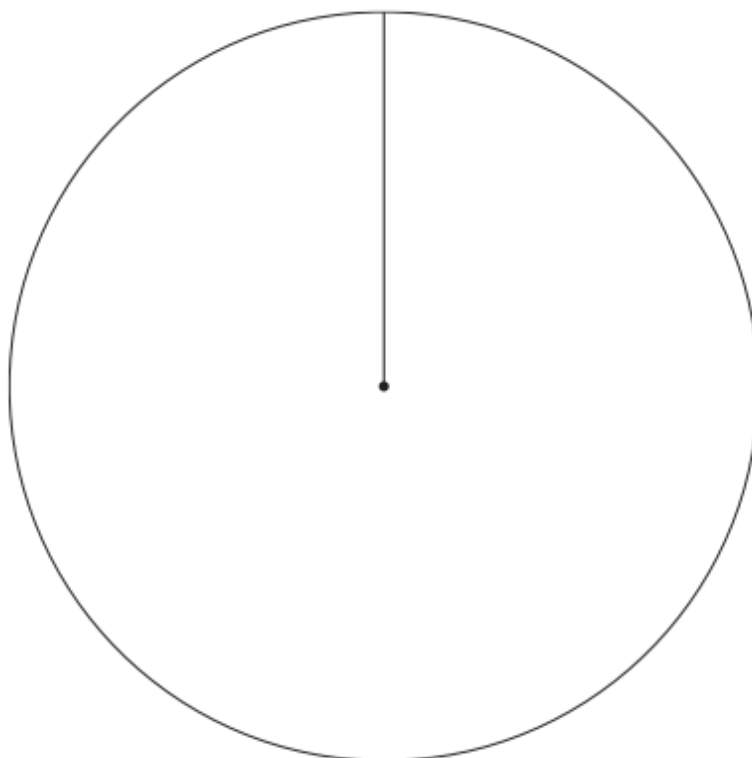
Q7.

Ian sells cans of drinks.

(a) The table shows the percentages of drinks sold on Monday morning.




Drink	Percentage Sold
Cola	30%
Lemonade	20%
Orange	50%

Draw a pie chart for the data.



(4)

- (b) The pictogram shows information about the drinks sold on Monday afternoon. The key is missing.

Cola	
Lemonade	
Orange	

80 cans were sold that afternoon.

How many cans of cola were sold?

Answer _____

(3)

- (c) 80 cans were also sold in the morning.

- (i) Write down **one** difference between the cans sold in the morning and in the afternoon.

(1)

- (ii) Ian orders more cans.

Which flavour should he order least of, based on Monday's sales?
Circle your answer.

Cola

Lemonade

Orange

(1)

(Total 9 marks)

Q8.

Eva owns a restaurant.

The table shows the number of customers on four days.

	Tuesday	Wednesday	Thursday	Friday
Lunch	25	22	27	31
Dinner	50	48	70	89
Total	75	70	97	120

- (a) How many **more** customers in total were there on Friday than on Thursday?

Answer _____

(2)

- (b) She keeps a tally of the number of customers who order pudding each day.

Complete the table.

Day	Tally	Frequency
Tuesday		17
Wednesday		
Thursday		
Friday		30

(2)

- (c) What fraction of **Friday's** customers ordered a pudding?
Give your answer in its simplest form.

Answer _____

(2)

(d) Here is some information about Saturday.

Number of customers	150
Number who order pudding	50

Eva thinks the fraction of customers who ordered puddings on Saturday is greater than on Friday.

Is she correct?

You **must** show your working.

(3)

(Total 9 marks)

Q9.

The table shows the number of desktop computers and laptops in 50 households.

		Desktop computers			
		0	1	2	3
Laptops	0	0	6	1	0
	1	5	10	4	4
	2	1	8	5	0
	3	3	2	1	0

- (a) How many households have two laptops?

Answer _____

(1)

- (b) How many households have more laptops than desktop computers?

Answer _____

(2)

(Total 3 marks)

Q10.

Amina asks 50 people,

“What is your favourite pet?
Choose from cat, dog, rabbit or other.”

- (a) Which **two** words describe the type of data she collects from each person?
Circle your answers.

qualitative continuous primary secondary

(1)

- (b) Which **two** diagrams could she use to represent the data?
Circle your answers.

scatter graph pie chart bar chart stem-and-leaf









(1)

(Total 2 marks)

Q11.

Some girls and boys voted for an extra lunchtime sport.

Key:  represents 4 votes

	Girls	Boys
Basketball		
Cricket		
Football		
Netball		

(a) How many girls voted for football?

Answer _____

(1)

(b) How many **more** girls than boys voted for cricket?

Answer _____

(2)

(c) Which sport got the most votes altogether?
Circle your answer.

Basketball

Cricket

Football

Netball

(1)

(Total 4 marks)

Q12.

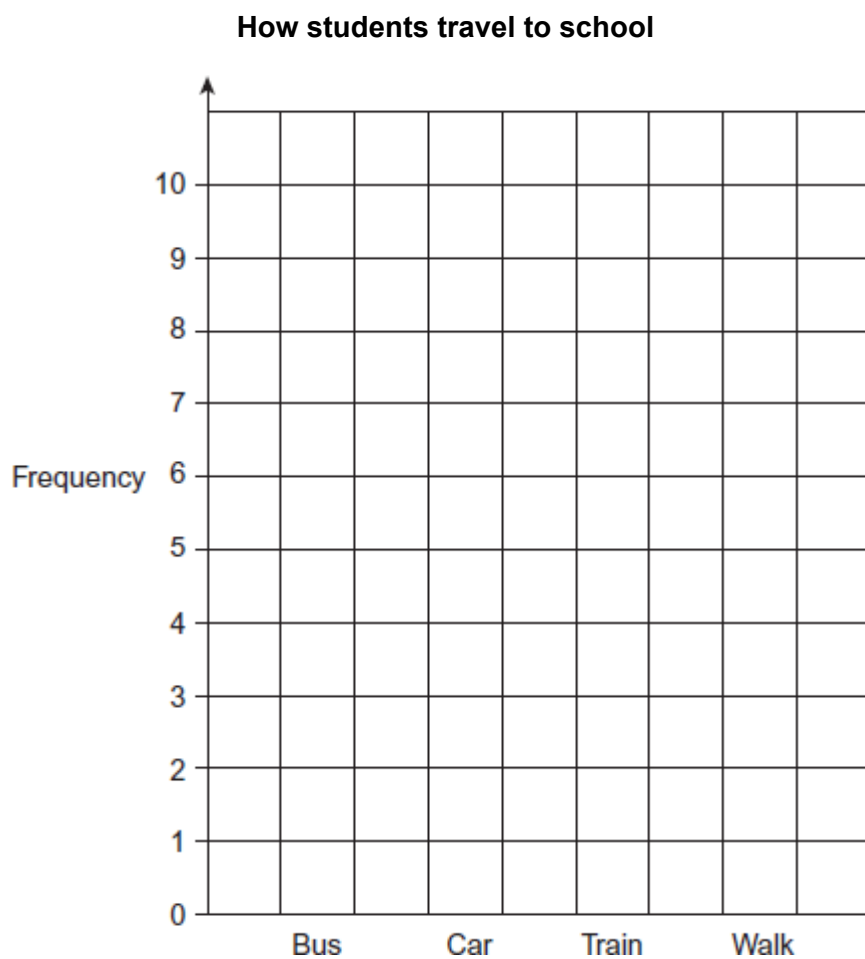
20 students give information about how they travel to school.

Half the students travel by bus.

7 students travel by car.

Twice as many students travel by train as walk.

Show this information on a bar chart.



(Total 4 marks)

Q13.

Olivia usually drives home from work.
Some of her journey times are shown.

Week 1

	Mon	Tue	Wed	Thu	Fri
Leaves work (pm)	5.13	5.24	5.30	5.28	5.02
Arrives home (pm)	5.55	6.03	6.15	6.06	5.32
Time taken (minutes)	42	39	45	38	30

Week 2

	Mon	Tue	Wed	Thu	Fri
Leaves work (pm)	5.15	5.18	5.20	5.07	5.10
Arrives home (pm)	5.49	5.50	5.57	5.40	
Time taken (minutes)		32	37	33	121

- (a) How long did it take Olivia to drive home on Monday of week 2?

Answer _____ minutes

(1)

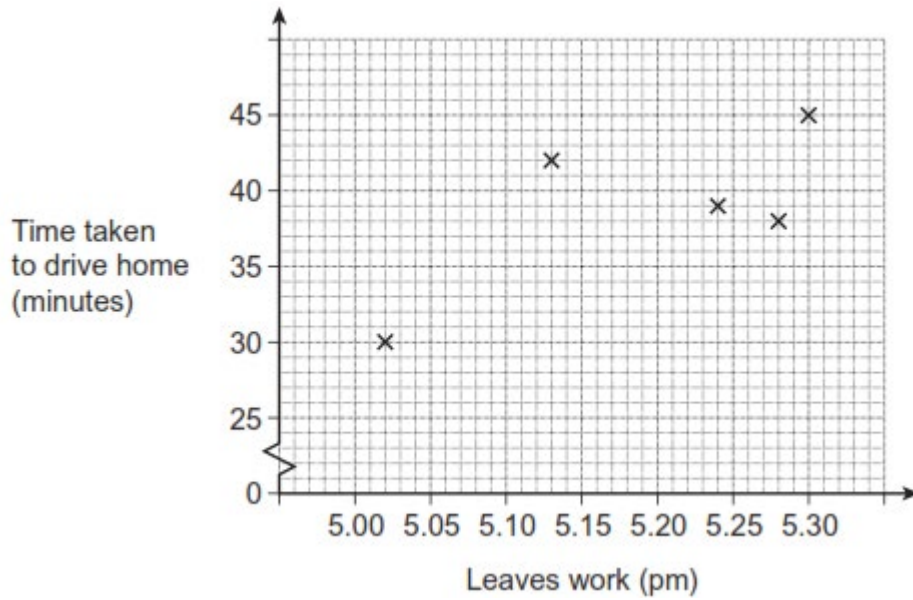
- (b) On Friday of week 2 Olivia walked home.

What time did she arrive home?

Answer _____ pm

(2)

- (c) Complete the scatter diagram for the **four** days she drives home in week 2.



(2)

- (d) Estimate the time Olivia would have arrived home on Friday of week 2 if she had driven.
Use your scatter diagram to show how you decide.

Answer _____ pm

(3)

(Total 8 marks)


Q14.

A club rents films.
These were the films rented on Monday.

Films rented on Monday

Comedy	12
Thriller	6
Romance	9
	Total = 27

(a) Draw a pictogram for this data.

Use  to represent 4 films.

Films rented on Monday


Key:  represents 4 films.

Comedy	
Thriller	
Romance	

(2)

(b) This pictogram represents the films rented on Tuesday.

Films rented on Tuesday

Key:  to represents 2 films

Comedy	
Thriller	
Romance	

The club manager says,

“Looking at the total number of films rented on **Monday and Tuesday**, half of them were Comedy.”

Is he correct?
 You **must** show your working.

(3)
 (Total 5 marks)

Q15.

The favourite computer games for 60 students are shown in the table.

(a) Complete the table.

Game	Tally	Frequency
A		18
B		
C		13
D		15
E		
Total		60

(2)

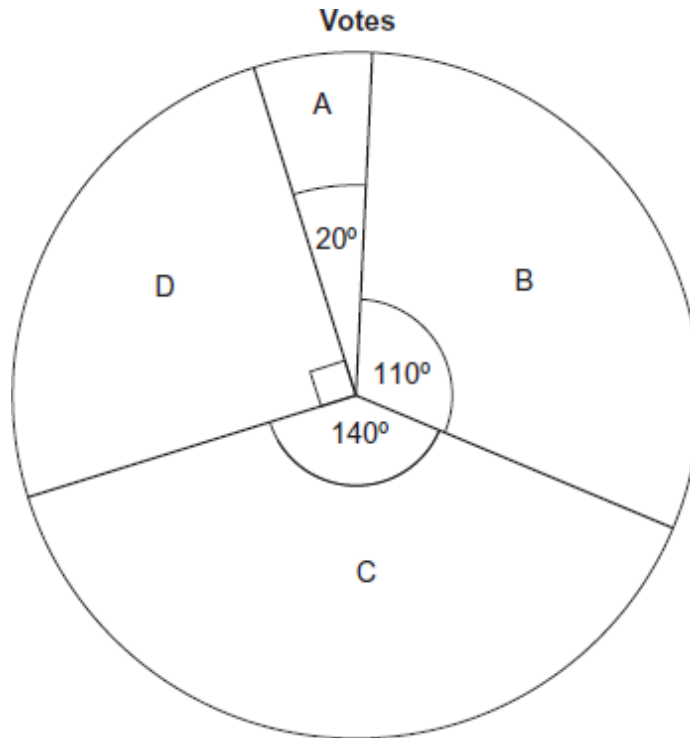
(b) Which game did exactly one quarter of the students choose?

Answer _____

(2)
 (Total 4 marks)

Q16.

The pie chart shows information about how people voted in an election.



1800 people voted for D.

How many **more** people voted for C than B?

Answer _____

(Total 3 marks)

Q17.

A data logging machine counts people entering and leaving a museum.

Hour ending at	Entering	Leaving
8 am	30	6
9 am	21	25
10 am	75	70
11 am	40	38

- (a) The museum opens at 7 am.

Show that there were 24 people in the museum at 8 am.

_____ (1)

- (b) How many people were in the museum at 11 am?

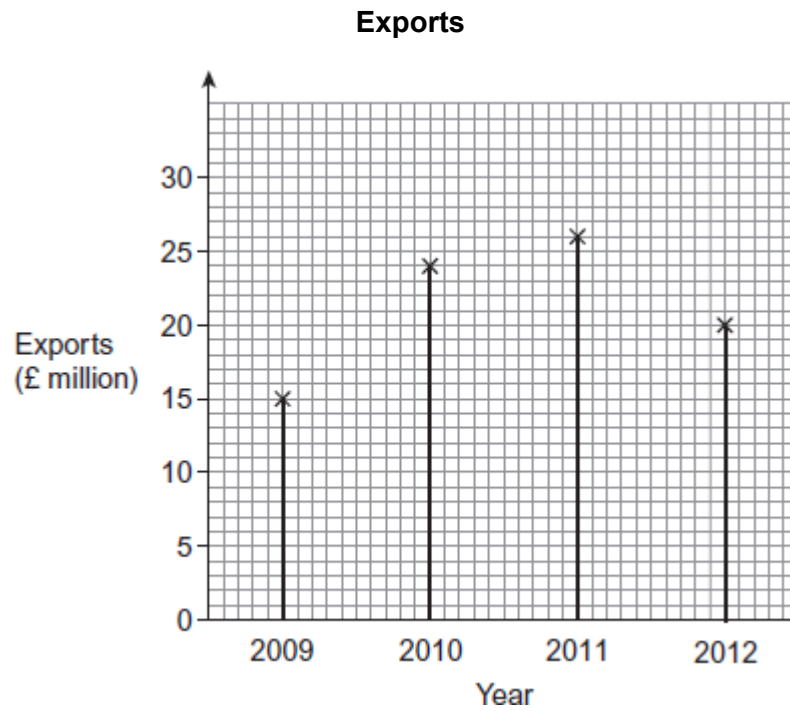
Answer _____

(2)

(Total 3 marks)

Q18.

The diagram shows information about the exports of a company.



- (a) Work out the **increase** in the exports from 2009 to 2010.

Answer £ _____ million

(2)

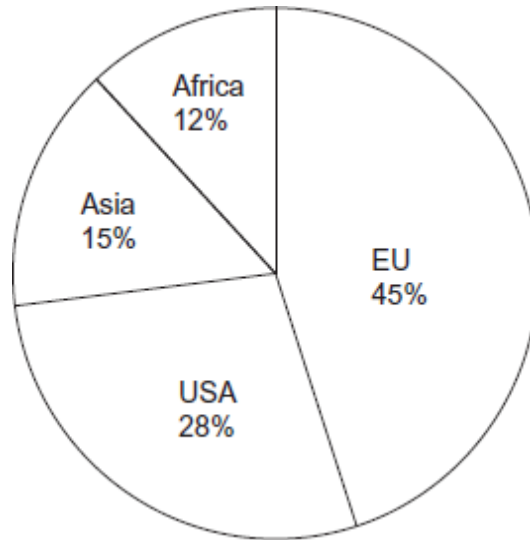
- (b) Write the value of the exports in 2011 to 1 significant figure.

Answer £ _____ million

(1)

- (c) The pie chart shows information about the exports of the company in 2012.

Exports in 2012



Use **both** diagrams to work out the value of the exports to the **USA** in 2012.

Answer £ _____ million

(3)

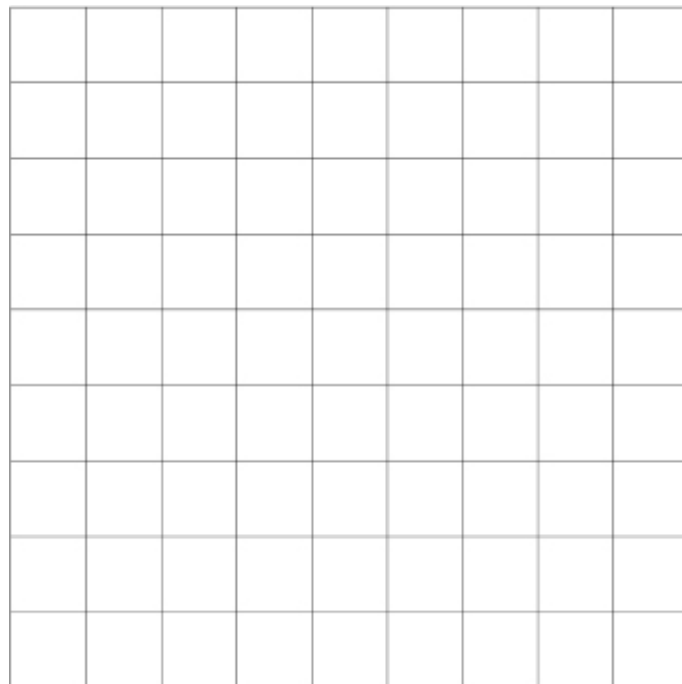
(Total 6 marks)

Q19.

The table shows information about the birds in a garden.

Bird	Number
Robin	2
Sparrow	5
Wren	3
Lark	1

Draw a bar chart to show the information.



(Total 3 marks)

Q20.

The table shows the proportions of left-handed and right-handed students in a school.

	Left-handed	Right-handed
Boys	15%	85%
Girls	12%	88%

- (a) 20 boys and 10 girls are chosen at random from the school.

Estimate the number of left-handed students chosen.

Answer _____

(3)

- (b) There are an equal number of boys and girls in the school.
A student is chosen at random.

Work out the probability that the student is right-handed.

Answer _____

(2)

(Total 5 marks)