

**Q1.**

Seven children measured their heights.

Children	Height (cm)
Stefan	144
Lara	136
Olivia	142
Chen	143
Maria	152
Dev	148
Sarah	150

What is the mean height of the children?

Show your method

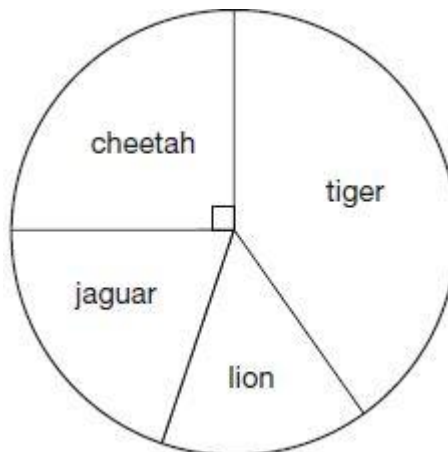
cm

2 marks

**Q2.**

This chart shows the number of different types of big cat in a zoo.

There are **20** big cats in the zoo altogether.



Here are some statements about the chart.

Tick the statements that are **true**.

There are more cheetahs than jaguars.

☐

The total number of lions and tigers is 10

☐

One-quarter of the big cats are cheetahs.

☐

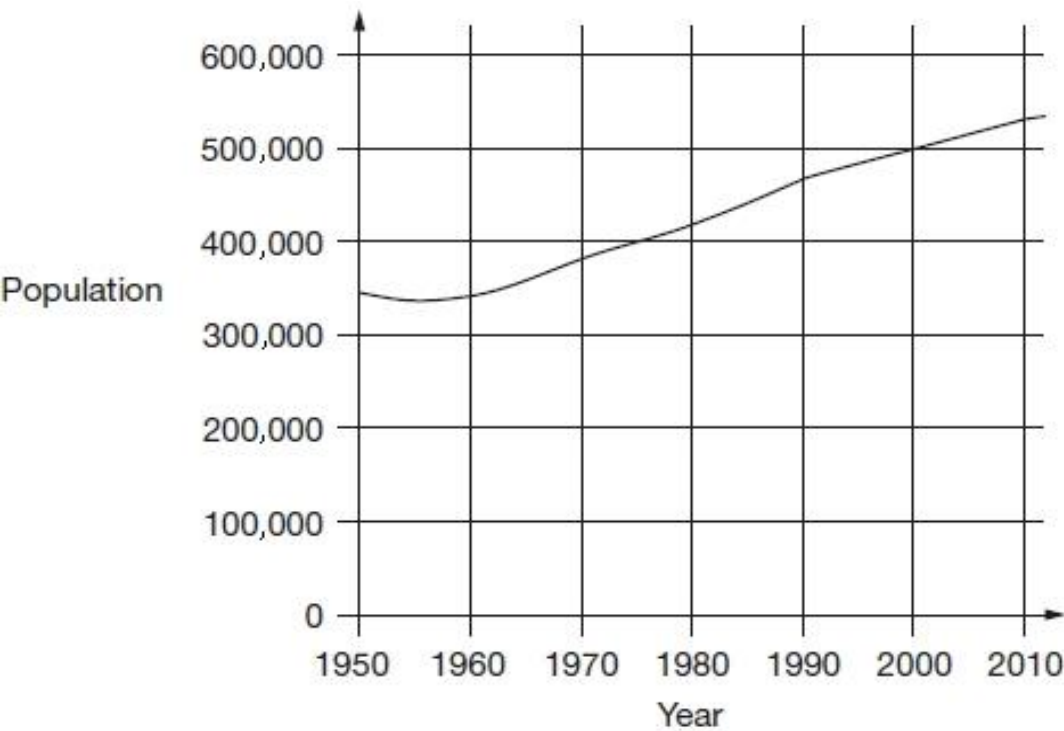
There are more than 5 jaguars.

☐

2 marks

Q3.

This chart shows the population of Cornwall from 1950 to 2010.



Look at the chart.

In which year did the population first reach 400,000?

1 mark

How much did the population increase from 1950 to 2000?

1 mark

What was the population of Cornwall in 2010?

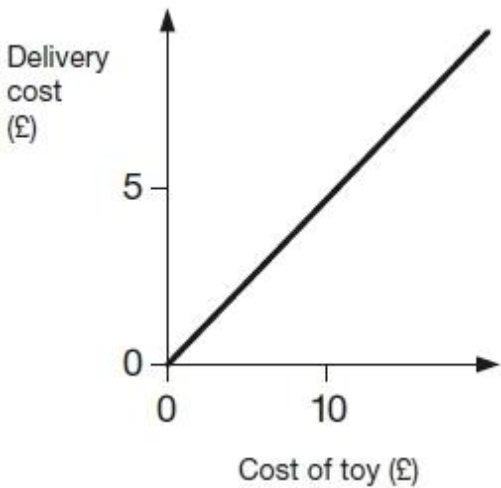
1 mark

**Q4.**

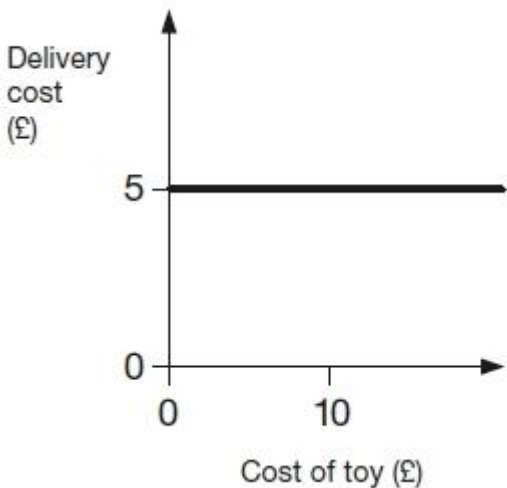
Two companies sell toys online. They charge to deliver.

Describe the delivery cost of the second company.

The first company is done for you.



The more a toy costs, the more  
the delivery costs.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1 mark

Q5.

This weather chart shows the highest and lowest temperatures in a town on five days in March.

	Temperature °C	
	highest	lowest
Monday	+7	0
Tuesday	+7	−2
Wednesday	+8	−2
Thursday	+9	+1
Friday	+4	−5

Which day has the greatest difference between the highest and the lowest temperatures?

\_\_\_\_\_ 1 mark

What is the difference between the lowest temperatures on Thursday and Friday?

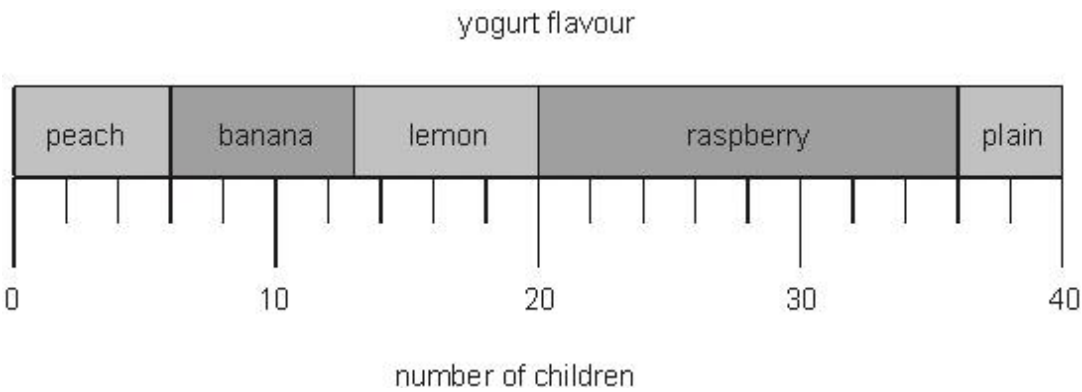
degrees

1 mark

Q6.

40 children each chose their favourite flavour of yogurt.

This chart shows the results.



How many children chose **lemon** yogurt?

1 mark

How many more children chose **raspberry** than **plain** yogurt?

1 mark

**Q7.**

**80 people** were asked if they owned a pet.

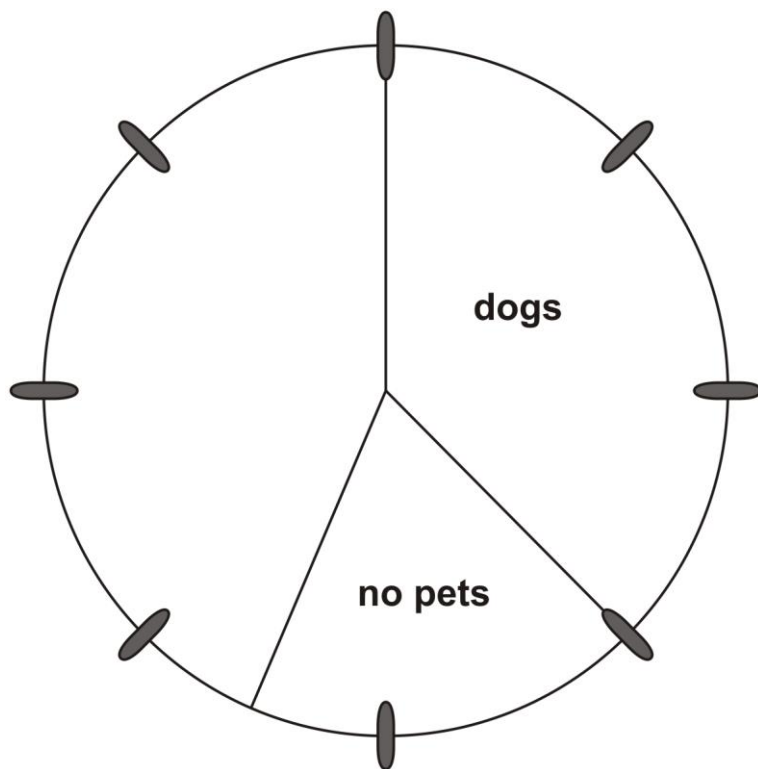
**30** had **dogs**

**25** had **cats**

**10** had other **pets**

**15** had no **pets**

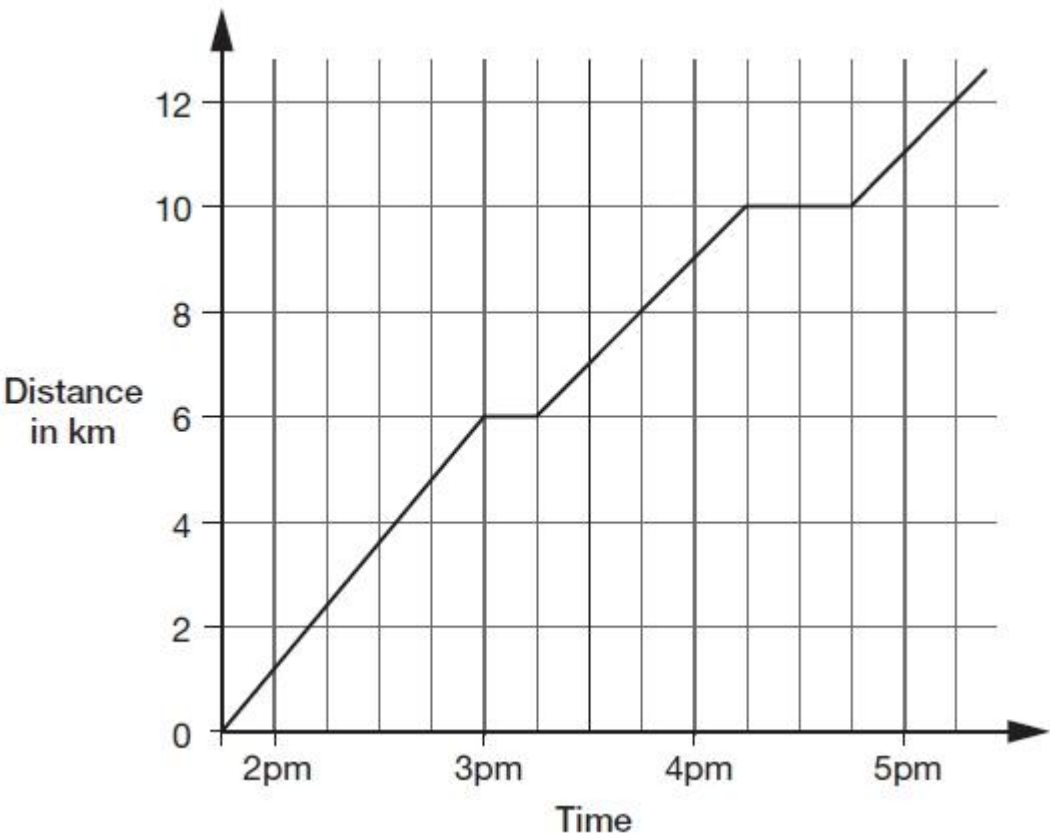
Complete the pie chart to show this information.



2 marks

Q8.

This graph shows the distance Alfie and Chen walked in an afternoon. They started at 1:45pm and had two breaks.



How many kilometres did they walk **between** the first and second breaks?

km

1 mark

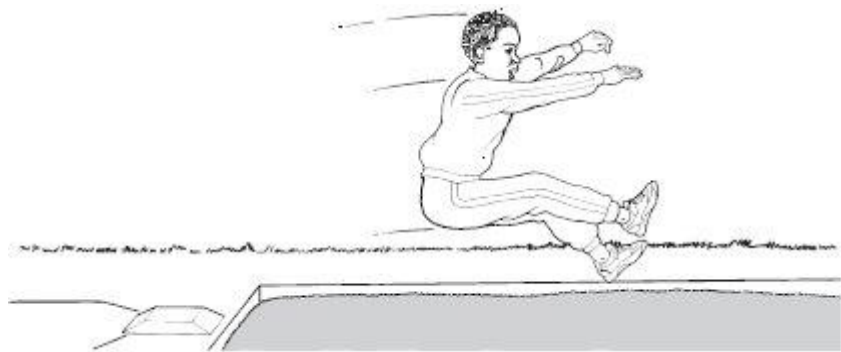
At what time did Alfie and Chen start their second break?

1 mark

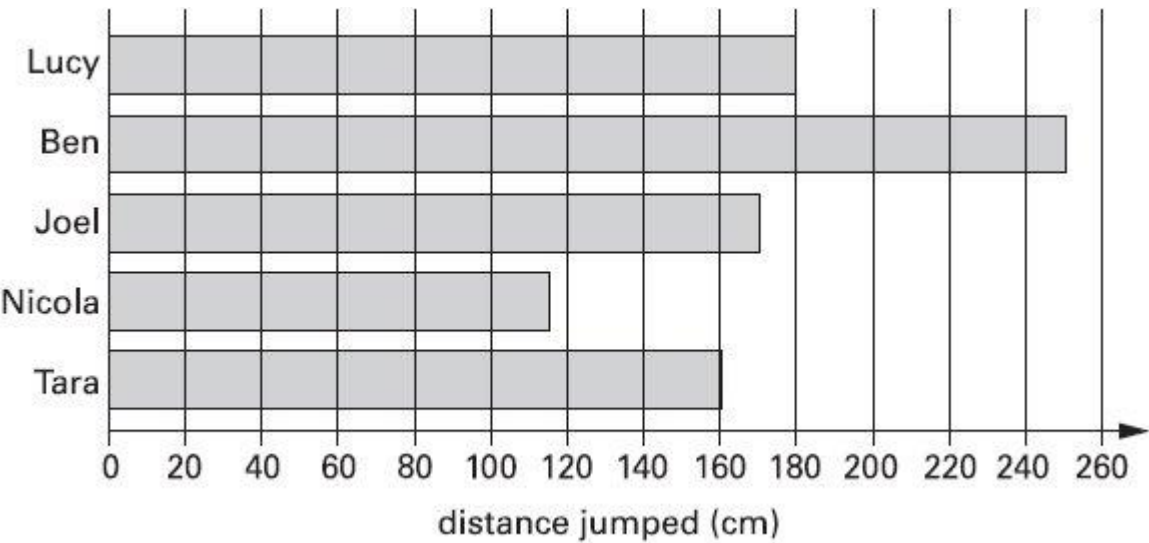


Q9.

Some children take part in the long jump.



The graph shows the distances the children jumped.



**Estimate** how much further Lucy jumped than Nicola.

cm

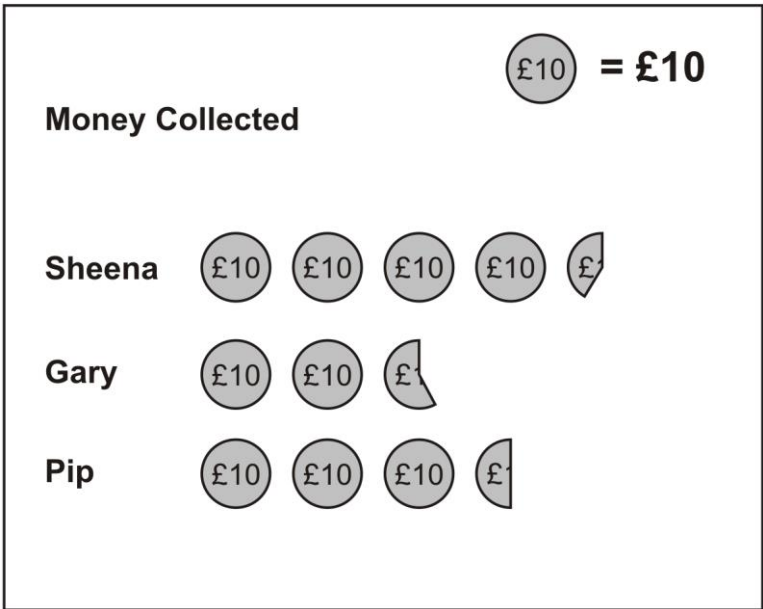
1 mark

Q10.

Three children do a sponsored silence.



This is a chart of the money they collected.



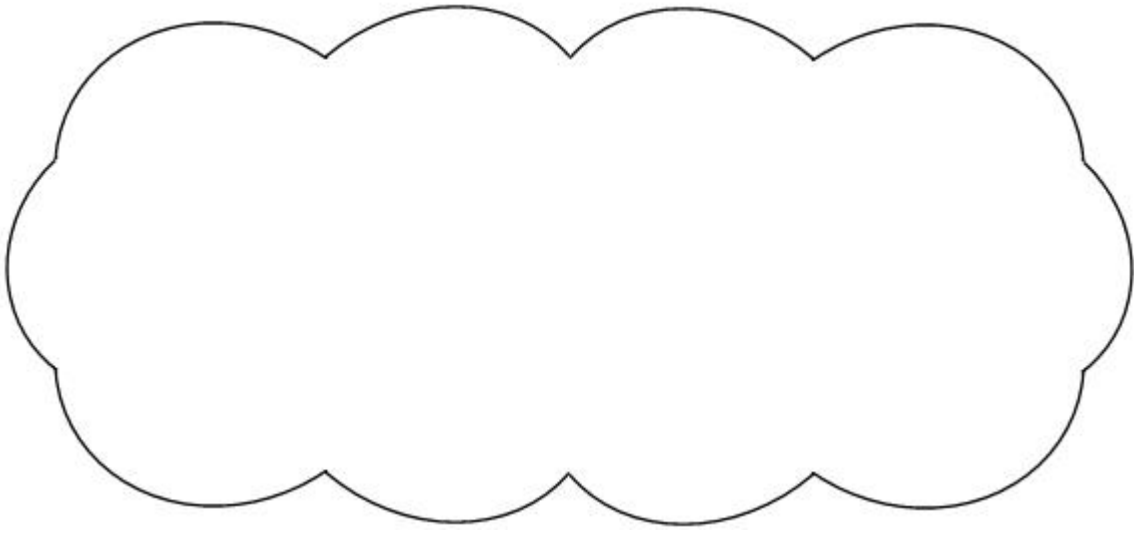
Estimate how much **Sheena** collected.

£

1 mark

Together **Gary** and **Pip** collected **more than £60**

Explain how the **chart** shows this.



1 mark

## Mark schemes

### Q1.

Award **TWO** marks for the correct answer of 145

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

$$\begin{array}{r} \bullet \quad 144 \\ 136 \\ 142 \\ 143 \\ 152 \\ 148 \\ \hline + 150 \\ 1015 \end{array}$$

$$1015 \div 7$$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

### Q2.

Award **TWO** marks for only two correct boxes ticked, as shown:

There are more cheetahs than jaguars.

☒

The total number of lions and tigers is 10

☐

One-quarter of the big cats are cheetahs.

☒

There are more than 5 jaguars.

☐

Award **ONE** mark for:

- only one correct box ticked and no incorrect boxes ticked

**OR**

- two correct boxes ticked and one incorrect box ticked.

*Accept alternative unambiguous positive indications, e.g. Y.*

Up to 2 marks

[2]

### Q3.

(a) 1974 **OR** 1975 **OR** 1976

1

(b) A whole number answer in the range 130 000 to 180 000 **inclusive**.

1

(c) A whole number answer in the range 510 000 to 550 000 **exclusive**.

**Do not accept 510 000 OR 550 000**

1

[3]

#### Q4.

Gives a correct description that indicates the delivery cost is constant, eg:

- The delivery cost is always £5
- The cost is always £5 no matter how much the toy costs
- Delivery stays the same as the cost of toy increases

*Accept minimally acceptable explanation, eg:*

- *It is £5*

*Accept omission of the actual delivery cost, eg:*

- *It always costs the same*
- *The cost is the same*
- *The cost of the toy does not affect the delivery cost*

*! Condone correct response with the pound sign omitted, eg:*

- *It is always 5*

*! Condone explanations which refer to toys costing up to £20*

**Do not accept incomplete or ambiguous explanation, eg:**

- *They are equal amounts*

[1]

#### Q5.

Wednesday

*Accept unambiguous abbreviations or recognisable misspellings.*

1

6

**Do not accept -6**

1

[2]

#### Q6.

(a) 7

1

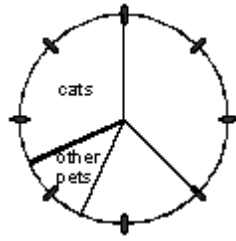
(b) 12

1

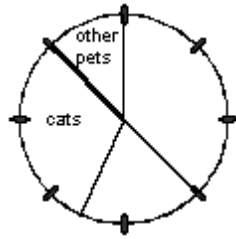
[2]

**Q7.**

**2 marks** for remainder of or 2 circle correctly divided into a '1 piece' sector and a '2½ piece' sector, and labelled 'other pets' and 'cats' respectively,



**or 1 mark** for remainder of circle divided into a '1 piece' sector and '2½ piece' sector, but not labelled or labelled incorrectly.



[2]

**Q8.**

(a) 4 km

1

(b) 4:15pm

*The answer is a specific time*

1

[2]

**Q9.**

Answer in the range 61 to 69 inclusive.

[1]

**Q10.**

(a) Answer in the range of £43 to £44 inclusive.

1

(b) Explanation which implies that Gary has an amount greater than £25 but less than £27.50 and that Pip has £35±1, so that their total is greater than £60, eg

- 'Gary has 26 Pip has 35';
- 'The chart shows that Gary has 2 and 2/3 and Pip has 3 and a half, so that's over 60 pounds';
- 'The whole symbols together make 50 and then it's 2 halves and Pip has half and Gary has more than half'.

**Do not accept vague or arbitrary answers, eg**

- *'By the number of coins';*
- *'There are 5 ten pounds and 2 halves';*
- *'A coin = 10 pounds and a broken coin = a fraction of a coin so a fraction of the money'.*

1

[2]