

1.

Here is part of the morning bus timetable from Winton to Yansley.

Winton	9:35	9:55	10:15	10:35
Ingham	9:45	10:05	10:25	10:45
Carston	10:01	10:21	10:41	11:01
Dubley	10:23	10:43	11:03	11:23
Yansley	10:55	11:15	11:35	11:55

How many minutes does the bus take to get from Ingham to Dubley?

1 mark

Megan is in Carston.

She wants to be in Yansley before 11:30

What is the time of the latest bus she can take from Carston?

1 mark

One morning, the 10:35 bus from Winton gets to Carston 3 minutes early.

What time does it get to Carston?

1 mark

2.

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

3.

Amy did a survey of what time people get up on a Sunday morning. This table shows her results for 150 people.

Time	number of people
before 7 am	13
7:00 am to 7:59 am	28
8:00 am to 8:59 am	59
9:00 am to 9:59 am	36
10 am and after	14

Look at the table.

How many people get up at **8 am or later**?

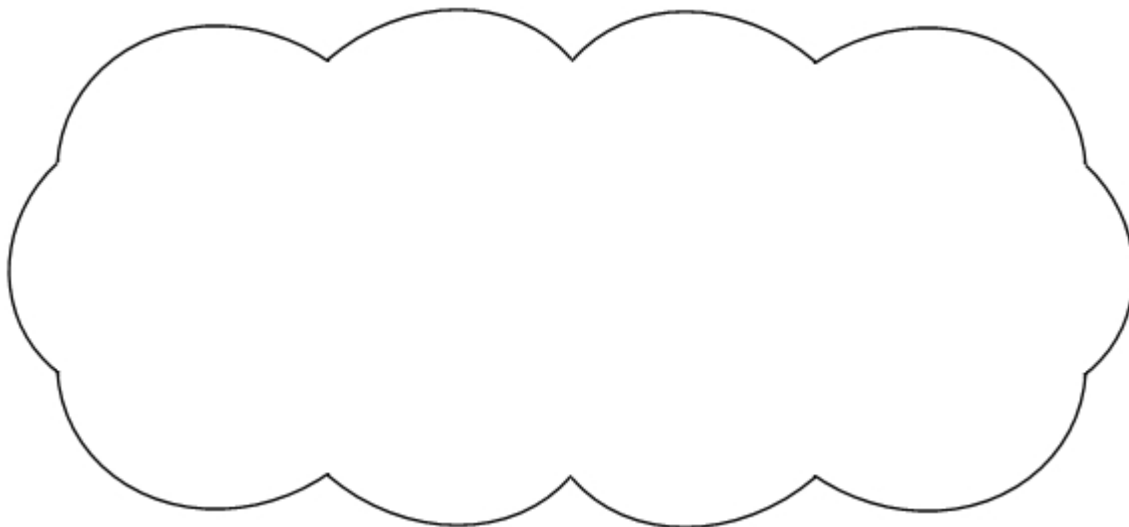
1 mark

Amy says,

'Two-thirds of the 150 people in the survey get up before 9 am.'

Amy is correct.

Explain how you know.



1 mark

4.

Here is information about pupils in a class.

- The total number of pupils is 30
- 26 of the pupils do not wear glasses.
- A quarter of the pupils who do wear glasses are boys.
- There are 2 more boys than girls.

Use the information to fill in the missing numbers in the table below.

	Number who do wear glasses	Number who do not wear glasses	Total
Number of boys			
Number of girls			
Total			30

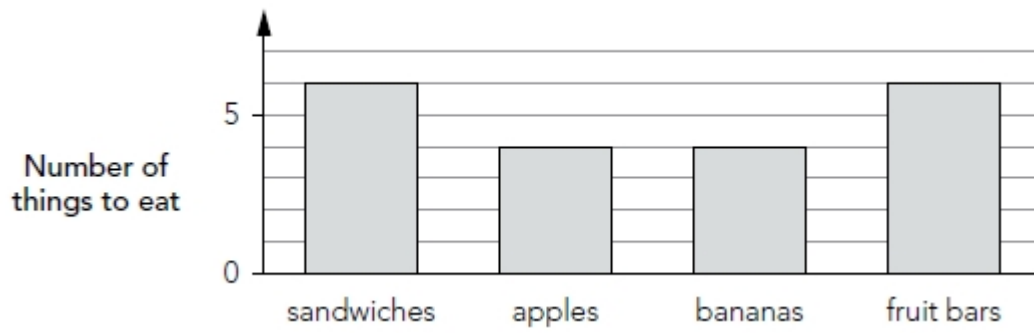
2 marks

5.

This table shows the number of things to eat in **five** children's lunch boxes.

	sandwiches	apples	bananas	fruit bars
Lisa	1	2	0	2
Jack	2	0	2	1
Kemi	1	1	0	2
Nik	1	2	1	0
Ben	2	1	2	1

Here is a graph of the information for **four** of the children.



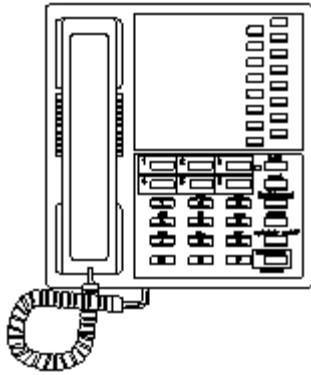
Which child's information is missing from the graph?

Explain how you know.

1 mark

6.

Tom collects information about how long the phone calls are in his house.



He makes a frequency table using class intervals of 30 seconds.

Here is **part** of the table.

length of call in secs.	0 - 29	30 - 59	60 - 89	90 - 119
number of calls	3	25	35	19

The **longest call** was 175 seconds.

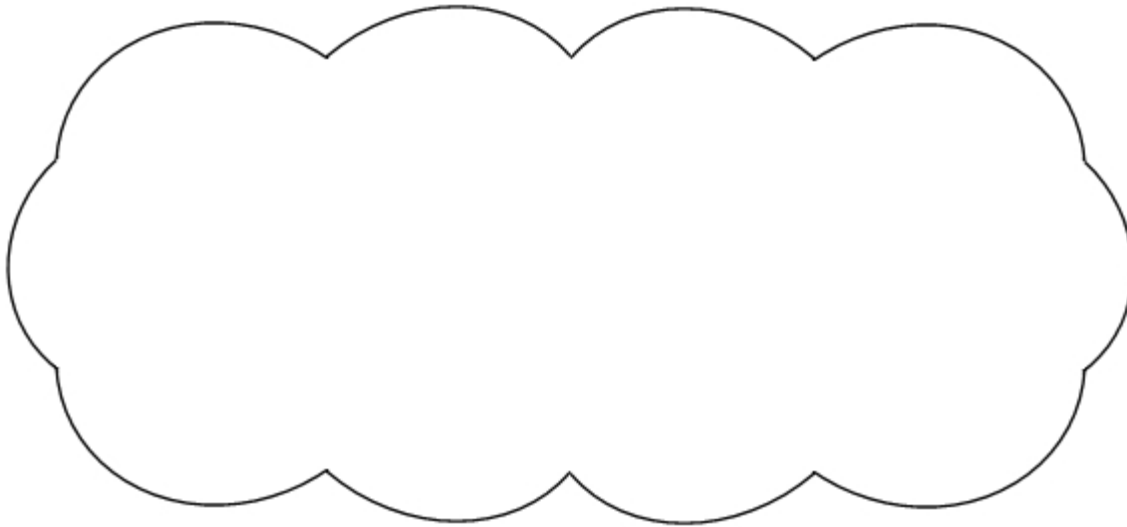
Which **class interval** does this fit into?

1 mark

Altogether he recorded **91 calls**.

Tom makes a **rough estimate** that half the calls lasted less than 75 secs.

Explain how he could make this estimate.



1 mark

7.

Here is a table of temperatures at dawn on the same day.

Temperatures °C	
London	-4°C
Moscow	-6°C
New York	-9°C
Paris	+6°C
Sydney	+14°C

What is the **difference** in temperature between **London** and **Paris**?

1 mark

At noon the temperature in **New York** has **risen by 5°C**.

What is the temperature in **New York** at noon?

1 mark

8.

There are 90 children in Year 6 at Woodland Junior School.

They are split into three classes.

Class	Number in class
6M	27
6P	33
6T	30

Each child chose football **or** netball **or** hockey.

In **6M**, 13 children chose hockey.

The rest of the class were split equally between football and netball.

In **6P**, 9 children chose netball.

Twice as many children chose football as chose hockey.

In **6T**, the ratio of children who chose football to netball to hockey was 1:2:3

Complete this table.

Class	Number in class	Football	Netball	Hockey
6M	27			13
6P	33		9	
6T	30			

2 marks

9.

On Monday all the children at Grange School each play one sport.

They choose either hockey or rounders.



There are **103** children altogether in the school.

27 girls choose hockey.

Write all this information in the table.

Then complete the table.

	hockey	rounders	Total
boys	22		
girls			53
Total			

2 marks

Mark schemes

- 1.** (a) 38
The answer is a time interval. 1
- (b) 10:21
The answer is a specific time. 1
- (c) 10:58 1
- [3]
- 2.** Wednesday
Accept unambiguous abbreviations or recognisable misspellings. 1
- 6
Do not accept -6 1
- [2]
- 3.** (a) 109 1
- (b) An explanation that recognises that 100 people get up before 9am which is two-thirds of the total (150).
- '13 + 28 + 59 = 100 which is two-thirds of the total'
 - ' $\frac{1}{3}$ of 150 = 50 and $2 \times 50 = 100$ '
 - ' $\frac{2}{3}$ of 150 is 100'
 - '36 + 14 = 50 which is one-third after 9am'
Do not accept vague or incomplete explanations, eg:
 - 'One-third are 9 o'clock or later'
 - '100 got up at 9am'
 - 'Twice as many got up before 9am.'
 - '13 + 28 + 59 = 100'
- U1
- [2]

4.

Completes all 8 entries of the table correctly, ie

	... do wear glasses	... do not wear glasses	Total
... boys	1	15	16
... girls	3	11	14
Total	4	26	30

2

or

Completes at least four entries correctly

1
U2

[2]

5.

Indicates Nik and gives a correct explanation

eg

- 1 sandwich, 2 apples and 1 banana is missing from the graph and that is what Nik had in his lunch box
- The graph shows the correct number of fruit bars and Nik is the only one who does not have a fruit bar in his lunch box so his must be the missing one
- The totals from the table are 7, 6, 5, 6, and from the graph 6, 4, 4, 6, and the difference is Nik

Accept minimally acceptable explanation

eg

- *1 sandwich, 2 apples, 1 banana*
- *Because the number of fruit bars is correct*
- *1 banana missing*
- *7, 6, 5, 6 and 6, 4, 4, 6 seen*

Do not accept *incorrect or incomplete explanation*

eg

- *1 sandwich, 2 apples*
- *There are 6 fruit bars*
- *2 apples are missing*

U1

[1]

- 6.** (a) 150 - 179 *Accept 6th OR sixth (interval).* 1
- (b) Explanation that refers to the fact that the 'middle length call' is the 46th in size **AND** this comes in the middle of the 60 -89 secs. group **AND** the middle of the range 60 - 89 is 75, eg
- "Because 63 of the calls took less than 90 seconds so about 45 took less than 75 sec."

1 [2]

- 7.** (a) 10
Accept +10 OR -10
Do not accept an incomplete calculation, eg: 4 + 6 1
- (b) -4
Accept 'negative 4' OR 'minus 4' OR '4 below'.
Do not accept '4-'. 1

1 [2]

8. Completes all 7 entries in the table correctly, ie:

	No.	Football	Netball	Hockey
6M	27	7	7	13
6P	33	16	9	8
6T	30	5	10	15

2

or

Completes the first two rows (6M & 6P) correctly

OR

Completes the third row (6T) correctly 1

[2]

9.

Award **TWO** marks for all seven boxes completed correctly as shown:

	hockey	rounders	Total
boys	22	28	50
girls	27	26	53
Total	49	54	103

If the answer is incorrect, award **ONE** mark for five or six boxes completed correctly.

Up to 2 (U1)

[2]