

**Q1.**

This table shows the number of people living in various towns in England.

Town	Population
Bedford	82,448
Carlton	48,493
Dover	34,087
Formby	24,478
Telford	166,640

What is the **total** of the numbers of people living in Formby and in Telford?

1 mark

What is the **difference** between the numbers of people living in Bedford and in Dover?

1 mark

**Q3.**

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**?

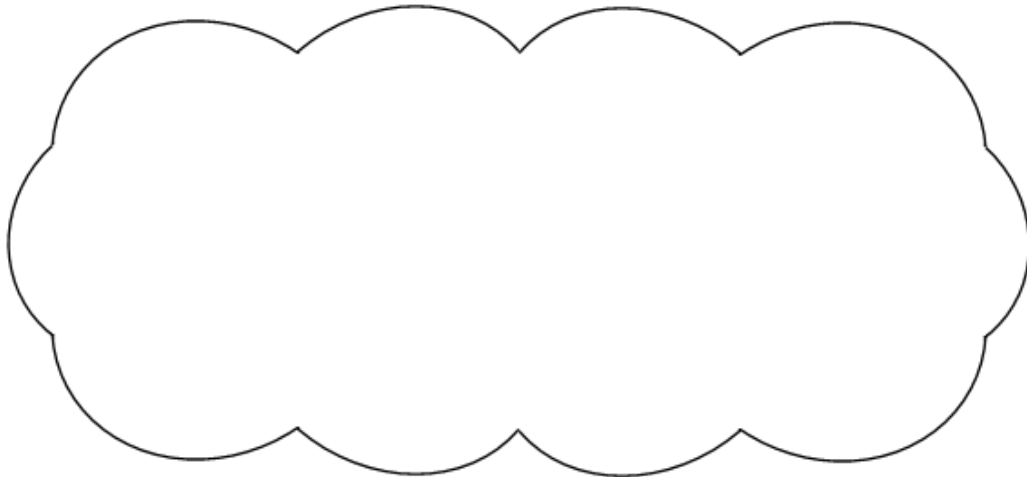
1 mark

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

**Q4.**

This table shows the four most popular names for baby girls born each year from 2004 to 2008.

	2004	2005	2006	2007	2008
1st	Emily	Jessica	Olivia	Grace	Olivia
2nd	Ellie	Emily	Grace	Ruby	Ruby
3rd	Jessica	Sophie	Jessica	Olivia	Grace
4th	Sophie	Olivia	Ruby	Emily	Emily

In how many years was Olivia in the **top three** most popular names?

1 mark

Write **all** the years when Emily was a more popular name than Jessica.

1 mark

**Q5.**

This table shows the opening times of a pet clinic.

  <b>Pet Clinic</b>  	
Monday	10am to 4:30pm
Tuesday	10am to 4:30pm
Wednesday	Closed all day
Thursday	10:30am to 2:30pm
Friday	1pm to 6:30pm
Saturday	10am to 5:30pm
Sunday	Closed all day

How many hours is the clinic open on Thursday?

hours

1 mark

On which day is the clinic open for the longest time?

1 mark

Liam takes his dog to the clinic on Saturday.

He arrives at 9:25am.

How many minutes is it before the clinic opens?

minutes

1 mark

**Q6.**

This table shows when flights take off at an airport.

Flight number	Destination	Take-off time 
AX40	Paris	13:35
BH253	Berlin	14:05
CG008	Rome	15:25
DP369	Paris	15:40
EZ44	Lisbon	16:15
FJ994	Dublin	17:25

How many flights take off between 3pm and 5pm?

1 mark

How much later does the second flight to Paris take off than the first?

1 mark

The flight to Dublin takes 50 minutes.

What time does it arrive in Dublin?

1 mark

**Q7.**

Here are the sunrise and sunset times for some days in July.

Date	Sunrise	Sunset
7th	04:53	21:18
14th	05:00	21:12
21st	05:09	21:05
28th	05:18	20:55

How many minutes earlier is the **sunset** on 28th July than on 7th July?

**Q8.** In a survey of children’s favourite fruit juices, these were the results.

Juice	Apple	Orange	Grape	Mango
Percentage of children	25%	14%	30%	31%

- (a) **20 more** children chose grape than chose apple.
- How many children took part in the survey?

Show your method

children

- (b) Chen makes a pie chart to show the results.
- What **angle** should he use for the children who chose **mango**?

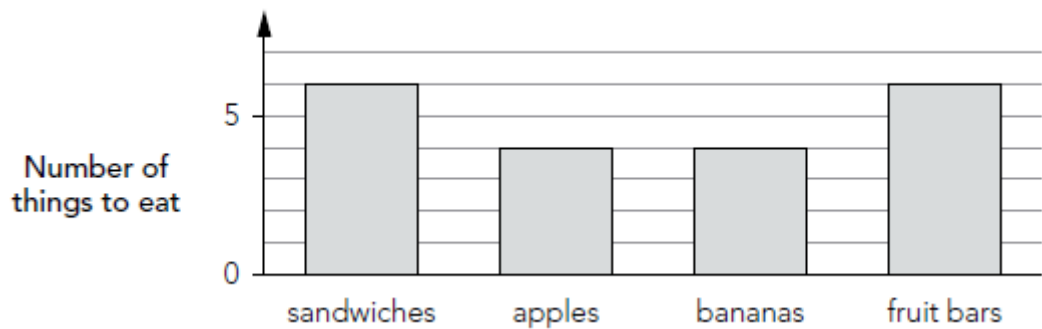


1 mark

**Q9.** 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

**Q10.**  
The table below shows five journeys a taxi driver made one day.

journey number	start time	number of passengers	distance	cost
1	9:15am	2	8 km	£7.50
2	9:40am	1	12 km	£9.90
3	10:30am	3	7 km	£7.60
4	10:50am	1	21 km	£15.50
5	12:10pm	4	15 km	£12.00

On journey number 5, the passengers shared the cost equally.

£

How much did **each** passenger pay?

How many **passengers** made journeys of more than 10 km?

passengers

1 mark

The 12 km journey took 40 minutes.

What time did the taxi finish its journey?

am

1 mark

**Q11.**

These are the opening times at Black Tower Castle.

Monday	Closed
Tuesday to Friday	11am to 6:30pm
Saturday	10am to 6pm
Sunday	10:30am to 4:30pm

How many hours is the castle open on Saturdays?

hours

1 mark

Alfie arrived at the castle at 5pm on a Thursday.

How long could he stay before closing time?

1 mark

**Q12.** 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

**Q13.** Megan likes honey, but not jam.  
 Alfie likes honey and jam.  
 Chen does not like honey or jam.  
 Donna only likes jam.

Write the children’s names in the correct parts of the sorting diagram.

	likes honey	does <b>not</b> like honey
likes jam		
does <b>not</b> like jam		

2 marks



**Q14.**

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

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

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

minutes

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

M1.

(a) 191,118

1

(b) 48,361

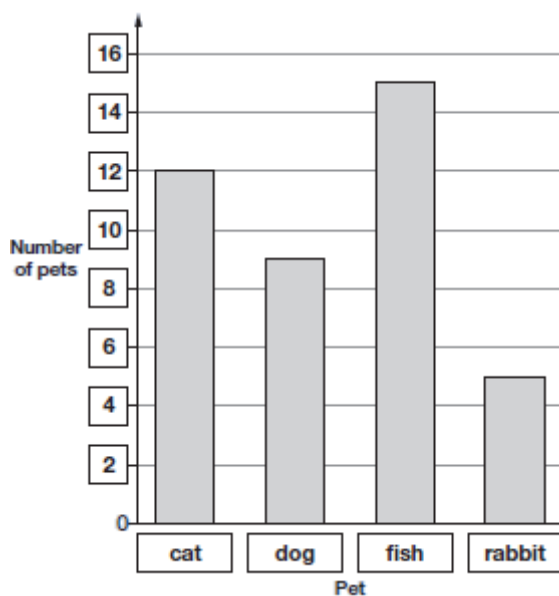
1

[2]

M2.(a) Vertical axis completed correctly as shown.

1

(b) Horizontal axis completed correctly as shown.



1

[2]

M3. (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]

**M4.** (a) 3

*Do not accept a list of years.*

1

(b) 2004 **AND** 2007 **AND** 2008

*Years may be given in any order.*

U1

[2]

**M5.** (a) 4 hours

*The answer is a time interval*

1

(b) Saturday

*Accept unambiguous abbreviations or recognisable misspellings.*

*Accept '10am to 5:30pm'.*

*Accept  $7\frac{1}{2}$  hours.*

1

(c) 35 minutes

*The answer is a time interval*

1

[3]

**M6.** (a) 3

1

(b) 2 hours 5 minutes

*The answer is a time interval*

1

(c) 18:15

*The answer is a specific time*

*Accept 6:15*

1

**M7.** 23

[1]

**M8.(a)** 400

2

**or**

Shows or implies a complete correct method, eg:

- $30\% - 25\% = 5\%$

$$5\% = 20$$

$$100\% = 20 \times 20$$

1

(b) 111.6 or 112

**Do not accept 111**

1

[3]

**M9.** 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]

**M10.** (a) £3.00

1

(b) 6

1

(c) 10:20 am

1

[3]

**M11.(a)** 8 hours

1

*The answer is a time interval*

(b) 1 hour 30 minutes

*The answer is a time interval*

1

[2]

**M12.**Wednesday

*Accept unambiguous abbreviations or recognisable misspellings.*

1

6

**Do not accept -6**

1

[2]

**M13.**Award **TWO** marks for four names correctly placed on the diagram as shown:

Alfie	Donna
Megan	Chen

[2]

**M14.(a)** 38

*The answer is a time interval.*

1

(b) 10:21

*The answer is a specific time.*

1

(c) 10:58