

Name:



Maths Assessment Year 5 Term 3: Statistics

1. Solve comparison, sum and difference problems using information presented in a line graph.
2. Complete, read and interpret information in tables, including timetables.

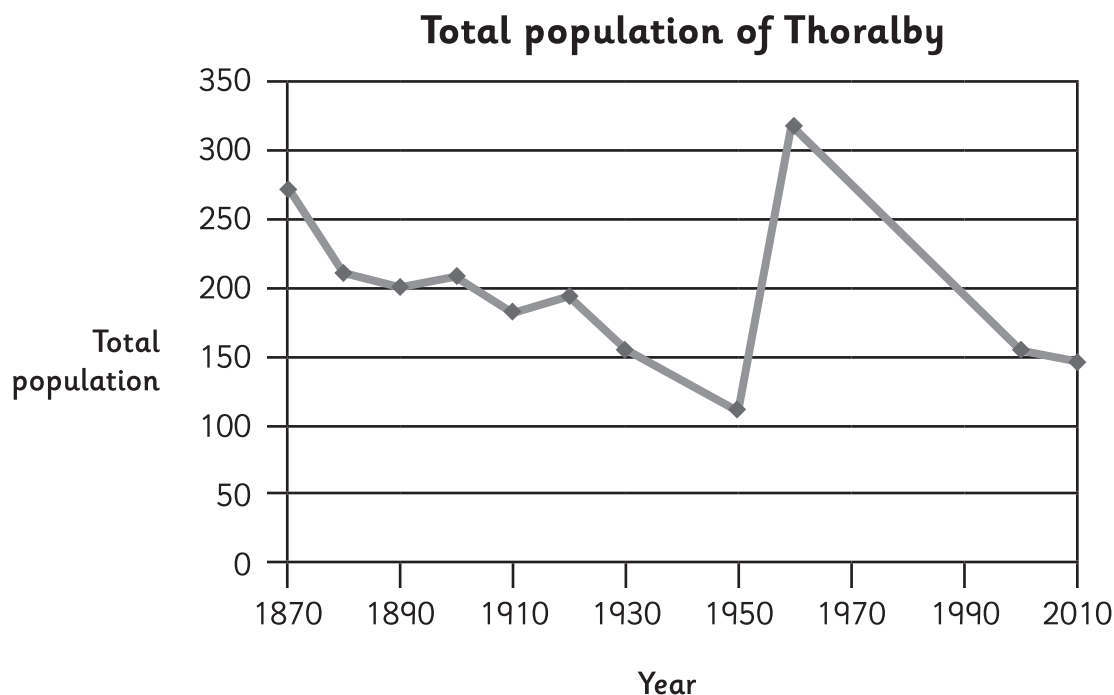
Name:

Date:

Maths Assessment Year 5 Term 3: Statistics

1. Solve comparison, sum and difference problems using information presented in a line graph.

Here is a line graph showing the population of Thoraby, taken from census data.



Answer these questions about the graph:

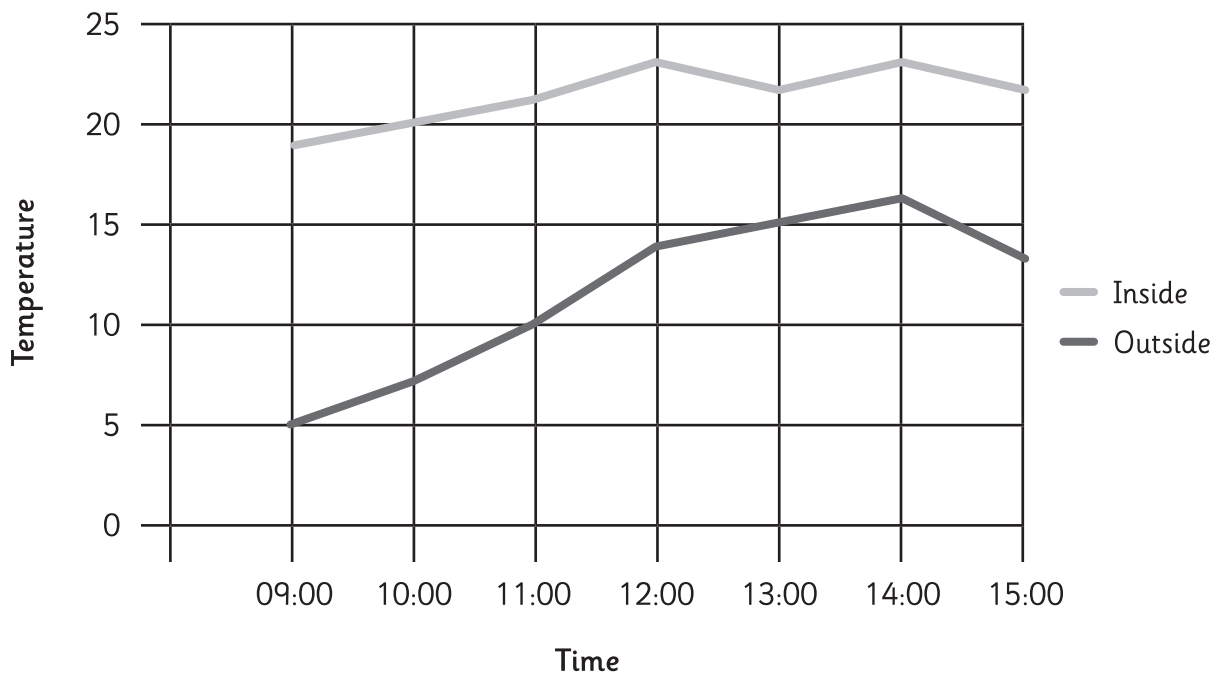
a) When was the population in Thoraby at its highest?

b) Estimate the population in 1980:

c) Between which years was the population less than 150?

Here is a line graph showing the temperature inside and outside during a school day:

The temperature inside and outside during a school day



Answer these questions about the graph:

d) At what time was the largest difference between the inside and outside temperature?

e) At what time was the temperature outside 12°C?

f) What were the temperatures at 2pm?

Inside:

Outside:

3 marks

Total for this page

2. Complete, read and interpret information in tables, including timetables.

Year 5 children chose their favourite genre of books. This table shows their choices:

a) Using the information in the table, fill in the missing boxes.

	Boys	Girls	Total
Adventure	14	10	24
Animal	7	16	
Horror		5	14
Information	16	9	
Humour			27
Total	57		

3 marks

Here is a timetable for the 23 and 23A buses in Manchester:

Service:	23	23A	23	23	23A	23	23A
Operator:	SMA	SMA	SMA	SMA	SMA	SMA	SMA
Stockport, Stockport Bus Station (Stand D)	06:00	06:20	06:40	07:00	07:20	07:35	07:55
Heaton Mersey, Didsbury Road/Mauldeth Road (Stop B)	06:06	06:26	06:46	07:06	07:26	07:41	08:03
East Didsbury, East Didsbury Metrolink Stop (Stop A)	06:11	06:31	06:51	07:11	07:31	07:46	08:12
Didsbury, Wilmslow Road/Whitechapel Street (Stop C)	06:16	06:36	06:56	07:16	07:36	07:51	08:19
Chorlton, Barlow Moor Rd/Princess Rd (Stop D)	06:21	06:42	07:02	07:24	07:44	08:01	08:29
Chorlton, Barlow Moor Rd/Chorlton Bus Station (Stop E)	06:26	06:47	07:07	07:29	07:51	08:11	08:39
Stretford, Kingsway/Stretford Arndale (Stop C)	06:33		07:17	07:41		08:26	
Stretford, Kingsway/Stretford Arndale (Stop C)	06:33		07:17	07:41		08:26	
Urmston, Stretford Road/Queens Road	06:41		07:25	07:49		08:34	
Stretford, Kingsway/Stretford Arndale (Stop D)		06:57			08:06		08:51
Stretford, Kingsway/Stretford Arndale (Stop D)		06:57			08:06		08:51
Lostock, Lostock Road/Moss Vale Hotel		07:06			08:15		09:00
Davyhulme, Davyhulme Circle/Hayeswater Rd (Stop C)	06:46	07:09	07:30	07:54	08:18	08:39	09:03
Trafford Centre, Intu Trafford Centre Bus Station	06:51	07:14	07:35	07:59	08:23	08:44	09:08

Total for this page

- a) Using the information in the table, fill in the missing boxes.
- b) Which is the fastest bus from Stockport to the Trafford Centre on this timetable? Show your working out:

The bus that leaves Stockport at:

2 marks

- c) Janet arrives at East Didsbury Metrolink stop at quarter past seven. At what time is the first bus that will take her to Urmston?

1 mark

Here is a television timetable:

	4:00pm			5:00pm			6:00pm	
BBC One	Escape to the Country	Flog It!		Pointless			BBC News	BBC Regional News
CBBC	The Dare Devil	News-round	Millie Inbetween	Blue peter	World's End	World's End	What's New Scooby-Doo?	Arthur

- d) James arrives home from school at ten past four. How long before Blue Peter starts?

1 mark

- e) James' Mum is watching Flog It. If James has to wait for it to finish, how many minutes of Blue Peter will he miss?

1 mark

- f) Sarah is only allowed to watch 1 hour of television in an evening. She watches Newsround and Millie Inbetween. Can she watch both episodes of World's End too? Please circle yes or no and then explain your answer:

Yes / No

1 mark

Total for this page

question	answer	marks	notes																												
1. Solve comparison, sum and difference problems using information presented in a line graph.																															
a	1960	1	Allow one year either way for these three dates.																												
b	230 - 240	1																													
c	Between 1931 and 1951	1																													
d	09:00	1																													
e	11:30	1																													
f	23°C and 16°C	1																													
2. Complete, read and interpret information in tables, including timetables.																															
a	<table border="1"> <thead> <tr> <th></th> <th>Boys</th> <th>Girls</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Adventure</td> <td>14</td> <td>10</td> <td>24</td> </tr> <tr> <td>Animal</td> <td>7</td> <td>16</td> <td>23</td> </tr> <tr> <td>Horror</td> <td>9</td> <td>5</td> <td>14</td> </tr> <tr> <td>Humour</td> <td>11</td> <td>16</td> <td>27</td> </tr> <tr> <td>Information</td> <td>16</td> <td>9</td> <td>25</td> </tr> <tr> <td>Total</td> <td>57</td> <td>56</td> <td>113</td> </tr> </tbody> </table>		Boys	Girls	Total	Adventure	14	10	24	Animal	7	16	23	Horror	9	5	14	Humour	11	16	27	Information	16	9	25	Total	57	56	113	3	All correct and no errors: 3 marks 1 incorrect answer: 2 marks 2 incorrect answers: 1 mark
	Boys	Girls	Total																												
Adventure	14	10	24																												
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Total	57	56	113																												
b	The 06:00 from Stockport	2	2 marks for the correct answer. 1 mark if children indicate they have worked out the journey times of each bus with only 1 error. It is sufficient to show the times after 07:20 are longer than 1 hour without writing the exact time.																												
c	07:46	1																													
d	50 minutes	1																													
e	15 minutes	1	Allow 10-20 minutes																												
f	No, because Newsround and Millie Inbetween last 40 minutes, which only leaves 20 minutes. Both episodes of World's End are 35 minutes.	1	Answer must be explained																												
		Total 15																													