

Line Graphs and Tables

Table and line graph a

Time	Distance Travelled (miles)
8:00 a.m.	0
8:30 a.m.	30
9:00 a.m.	60
9:30 a.m.	60
10:00 a.m.	85
10:30 a.m.	118

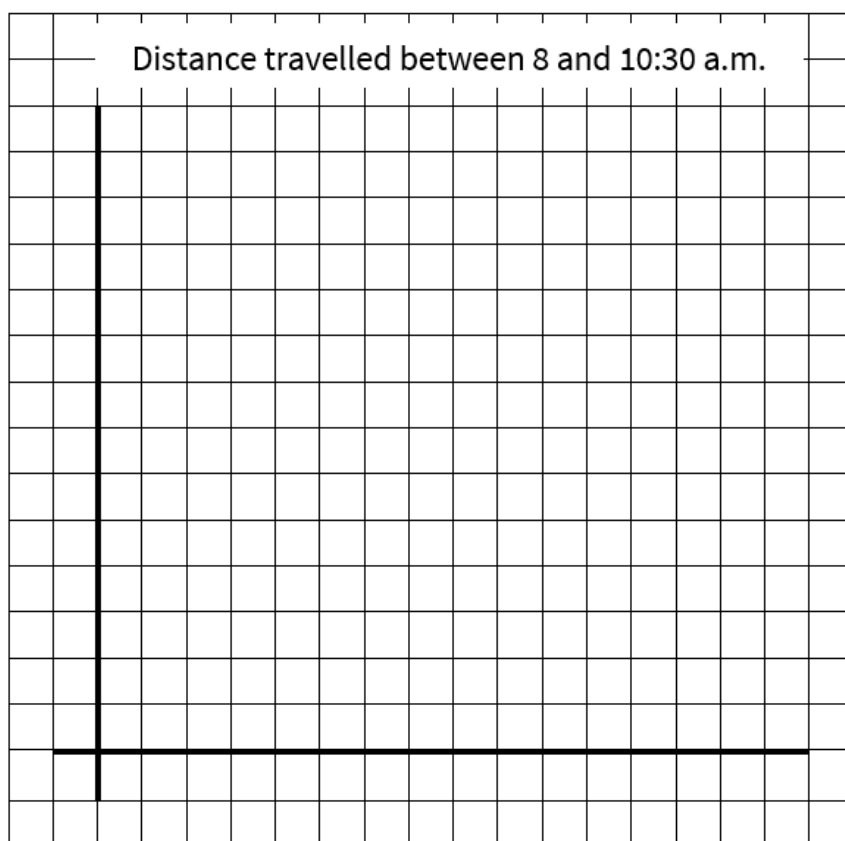
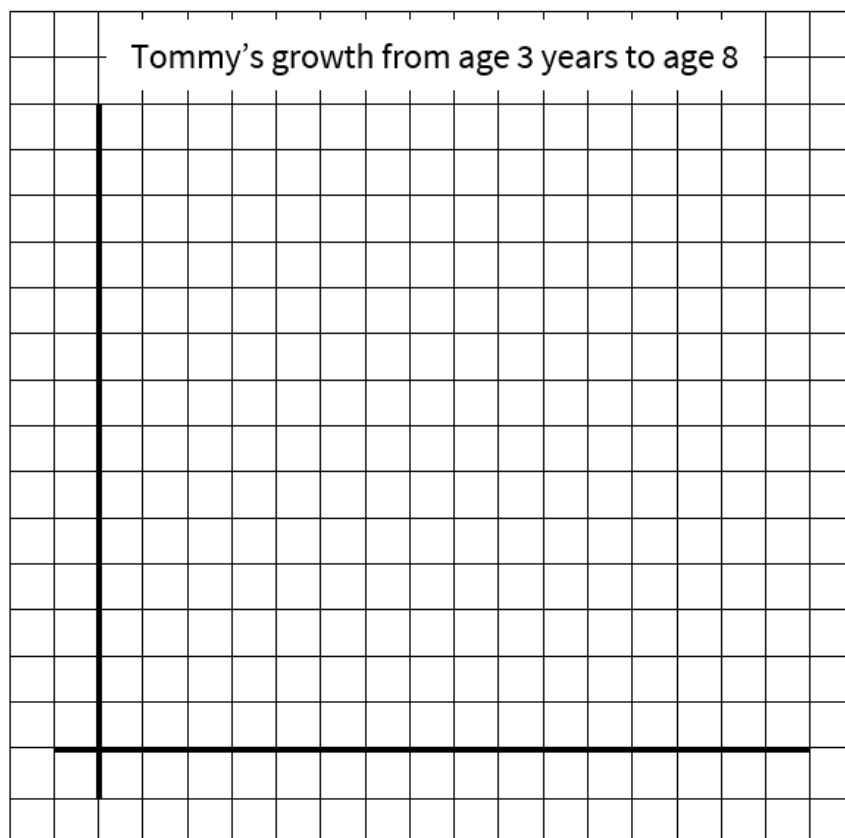


Table and line graph b

Age	Height in cm
Aged 3 years	95
Aged 4 years	100
Aged 5 years	109
Aged 6 years	115
Aged 7 years	120
Aged 8 years	130



Arithmetic

1. $48 \div 8$

2. $9,017 + 1,000$

3. $63 \div 10$

4. 5×7

Practice: Line Graphs

5. Recap: Which axis is the x-axis and which axis is the y-axis?



6. Label the x and y axes on line graph a.

7. Complete line graph a to show the information in the table.

8. a. At what time did the vehicle stay still for 30 minutes? b. How far did it travel between 8 and 10:30am?

9. Label the x and y axes on line graph b.

10. Explain how you decided on the scale to use for table a.



11. Complete line graph b to show the information in the table.

12. a. Between which ages did Tommy grow the most?
b. How much did Tommy grow between age 5 and 7?

13. In table a, the total distance travelled was 353 miles. Is this correct? Explain.



Challenge

14. Create a story for table a/ line graph a.



You might want
to talk to an adult



Spot the mistake

Answers

Q no.	Question	Answer
1	$48 \div 8$	6
2	$9,017 + 1,000$	10,017
3	$63 \div 10$	6.3
4	5×7	35
5	Which axis is the x-axis and which axis is the y-axis?	The x-axis is the horizontal axis. The y-axis is the vertical axis.
6	Label the x and y axes on line graph a.	x – Time, y – Distance travelled (miles)
7	Complete line graph a to show the information in the table.	Correctly drawn.
8	Questions about line graph a.	a. 9am, b. 118 miles
9	Label the x and y axes on line graph b.	x – Time, y – Height (cm)
10	Complete line graph b to show the information in the table.	Answers will vary depending on the scale choice. Most pupils will have chosen a scale with intervals of 10 or 20 as most of the data points are multiples of ten.
11	Complete line graph b to show the information in the table.	Correctly drawn.
12	Questions about line graph b.	a. between 7 and 8 years old (10cm), b. 11cm
13	In table a, the total distance travelled was 353 miles. Is this correct? Explain.	The total of 353 miles has been found by adding all the distances together. This is incorrect and shows a misunderstanding of line graphs. This answer shows that the pupil believes each point on the line graph is a discrete set of data, not continuous.
14	Create a story for table a/ line graph a.	Answers will vary. Pupils should note that the vehicle stopped for half an hour.