Y6 Line Graphs

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Use the graph. What was the temperature at 10:00?

Step 1 · Find 10:00 on the horizontal axis

go up to the line

Step 2 · Go across to the vertical axis

12

Answer: 12°C

Check: It matches the table ✓

2. Now try one with the steps

Between which two readings did the temperature rise most?

Step 1 · Rises: 06→08 +3, 08→10 +5, 10→12 +3, 12→14 +1

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. What was the highest temperature?

2. At what time was it highest?

3. How much did the temperature rise from 06:00 to 12:00?

4. How much did it fall from 14:00 to 18:00?

5. What is the difference between the highest and lowest readings?

6. Estimate the temperature at 13:00.

7. How far had the car gone after 2 hours?

8. What happened between 2 and 3 hours?

9. How far did the car go in the last hour?

10. Assuming steady speed in the first hour, estimate the distance after half an hour.

11. Estimate the distance after 1.5 hours.

12. How much did the plant grow altogether?

13. Between which two weeks did it grow most?

14. Draw a line graph of this data. What scale would you use on the height axis?

15. Why is a line graph good for showing temperature through a day, but not for showing children's favourite colours?

4. Before you hand it in

Reading 12°C at 10:00 as 13°C or 11°C.
Work out what each small division is worth before reading (here each line is 4°C, so estimate carefully between lines).

Drawing a line graph with uneven gaps on an axis.
Every step on an axis must be the same size, starting from 0 where possible.

Using a line graph for categories such colour.

Line graphs are for things that change continuously, usually over time. Use bar charts or pie charts for categories.