

Resources

English



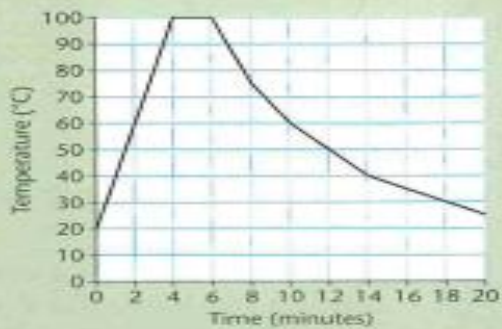




Maths Tuesday

**A**

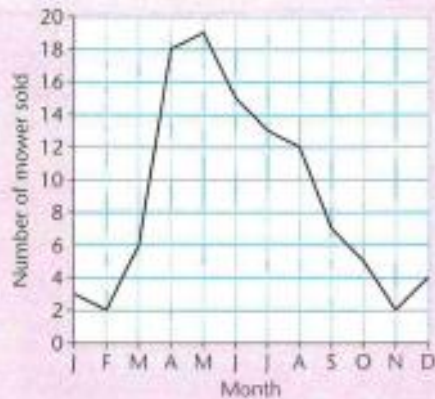
This line graph shows the temperature of water being heated and then left to cool recorded every 2 minutes.



- 1 What is the temperature of the water before it is heated?
- 2 How long does it take the water to reach boiling point?
- 3 How much does the temperature rise in the first two minutes of heating?
- 4 How long is the water boiling?
- 5 How much does the temperature fall in the first two minutes of cooling?
- 6 As the water cooled at what time was the temperature:  
a) 50°C  
b) 35°C?
- 7 What was the temperature of the water after:  
a) 20 minutes  
b) 8 minutes?
- 8 At which two times was the temperature 60°C?

**B**

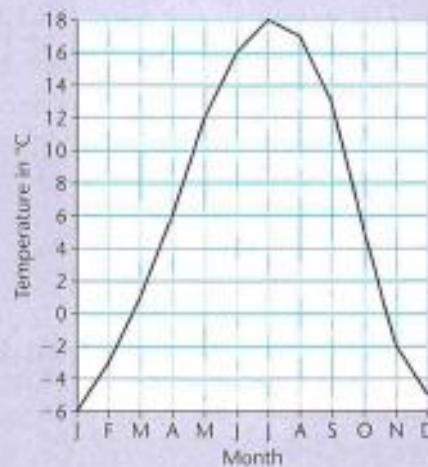
This graph shows the monthly sales of lawnmowers at a garden centre.



- In which months were:
  - most mowers sold
  - fewest mowers sold?
- How many mowers were sold in:
  - March
  - August?
- In which month were:
  - 4 mowers sold
  - 15 mowers sold?
- In which month was there:
  - the largest rise in sales
  - the largest fall in sales?
- How many more mowers were sold in October than in November?
- How many fewer mowers were sold in February than in May?
- How many fewer mowers were sold in the first three months of the year than in the next three months?
- In how many months were there:
  - more than 10 mowers sold
  - less than 5 mowers sold?
- How many mowers were sold in the year altogether?

**C**

This graph shows the average daily maximum temperature recorded in Anchorage, Alaska, in one year.



- In which month was the highest temperature recorded?
- What was the lowest temperature?
- In which month was the temperature:
  - 17°C
  - 3°C?
- What was the temperature in:
  - June
  - December?
- In which month was there:
  - the largest rise in temperature
  - the largest fall in temperature?
- How much higher was the temperature:
  - in October than November
  - in September than December?
- How much lower was the temperature:
  - in April than May
  - in January than July?
- In which months was the temperature:
  - above 10°C
  - below 0°C?

Answers

**A**

- 1 20°C
- 2 4 minutes
- 3 40°C
- 4 2 minutes
- 5 25°C
- 6 a) 12 minutes  
b) 16 minutes
- 7 a) 25°C  
b) 75°C
- 8 2 minutes, 10 minutes
- 9 a) 40°C  
b) 45°C

**B**

- 1 a) May  
b) February, November
- 2 a) 6  
b) 12
- 3 a) December  
b) June
- 4 a) April  
b) September
- 5 3
- 6 17
- 7 41
- 8 a) 5  
b) 4
- 9 106

**C**

- 1 July
- 2 -6°C
- 3 a) August  
b) February
- 4 a) 16°C  
b) -5°C
- 5 a) May  
b) October
- 6 a) 7°C  
b) 18°C
- 7 a) 6°C  
b) 24°C
- 8 a) May, June, July, August, September  
b) January, February, November, December

## **Kidnapped**

Somebody was coming up the stairs! Ducking down behind an old crate, we waited. I could feel my heart thumping like a bass drum. What if we were caught? The strange girl glanced at me through the semi-gloom and grinned.

Gradually, the door opened and we could hear someone tiptoeing in. There was a pause and then a torch flickered on. After a few moments, the light switched off. Then the door shut and the footsteps clicked back down the stairs. Relieved, I let out a sigh. As we clambered out of the window and slithered down the wet roof, I was trying to remember how I had got into such a mess.

It had only been half an hour ago when Mum had sent me down to the chippie with a tenner. When I reached the roundabout, I couldn't help looking at the old house, although it wasn't much to look at. It was then that I'd seen it: a light at the window. Then I saw a face. I stood there staring. It was a girl; she was mouthing a word and the word was, 'HELP'.

That's how it happened. I'd broken in round the back through a smashed window, despite the risk of being cut. Half a minute later and I'd found her, a trapped prisoner in an upstairs room. She'd only just finished telling me that she was the American ambassador's daughter, when the kidnappers returned!

So there we were, balancing on the roof, as if we were walking the tight rope. Gripping the loose, creaking guttering desperately, I lowered myself down. Five minutes later and we were back at Mum's cosy kitchen. "So Ron, where's the fish and chips?" she asked, eyeing the girl suspiciously. Half an hour after that, her Dad arrived in a shiny embassy limousine. That night it wasn't just chips for tea. He took us all out for a huge banquet. Amazingly, the next day, there I was in the local paper. A hero.