

Nuffield Free-Standing Mathematics Activity 'Matching graphs and scenarios' Student cards page 1 of 4 © Nuffield Foundation 2012 ● downloaded from www.fsmq.org

This graph shows the relationship between kilometres and miles.

8 kilometres = 5 miles

The water boiled at 100°C then cooled to the room temperature of 20°C after 1 hour.

The journey was
100 miles long.
We travelled at
a steady 50 mph
and arrived after 2 hours.

When we took the bread from the freezer, its temperature was -20°C.

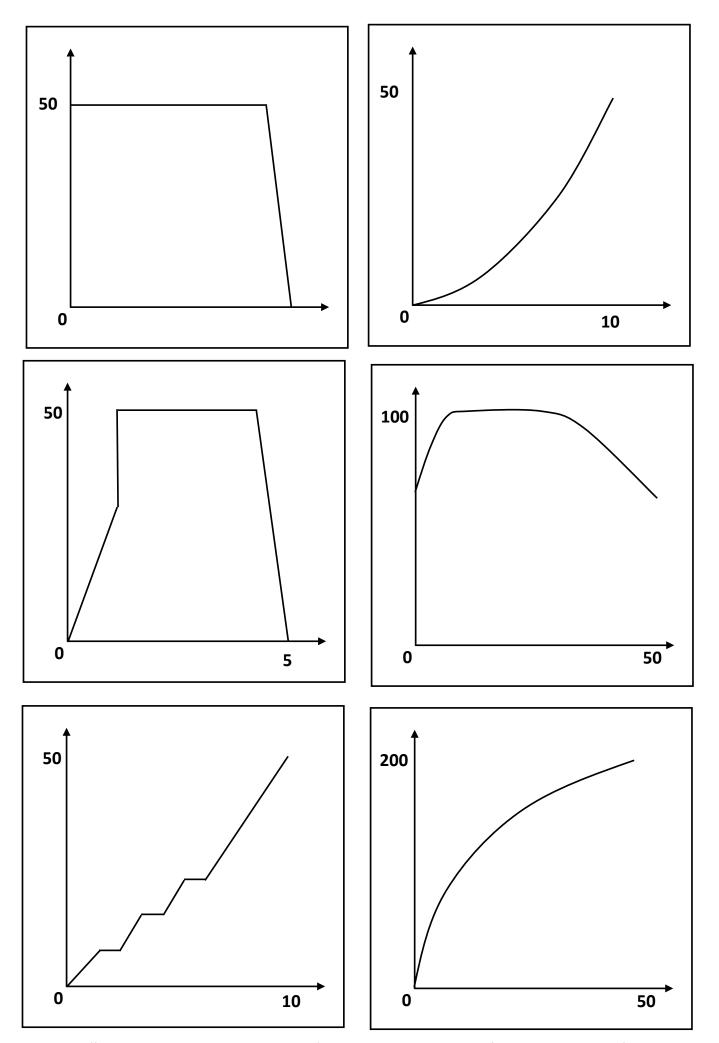
It took about

30 minutes

to thaw.

When full, the tank held 100 litres of oil. We used 20 litres every day. After 5 days it was all gone. This graph shows the relationship between Fahrenheit and Celsius.

For water, freezing point is 0°C or 32°F boiling point is 100°C or 212°F



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I was driving at a steady 50 mph when I had to do an emergency stop. The plant grew slowly at first, then more quickly. It reached a height of 50 cm after 10 weeks.

including
the time taken to fill it
and let out the water.
The depth of the water
rose to 50 cm
when I got in.

My heart rate rose quickly to 100 beats per minute during exercise.

It took longer to fall when I stopped.

My heart rate was back to normal 50 minutes after I started exercising.

After setting off from the junction
I speeded up to 50 mph in 10 seconds.



This container holds
200 ml of water.
The water was poured in steadily until it was full after 50 seconds.