



1. The data above shows the water temperature in degrees Celsius, in an office drink fountain. Temperatures are measured from 9am to 5pm.
  - a) What was the lowest temperature?
  - b) What time do you think lunchtime began? Why?
  - c) At what rate did the water heat up between 10am and 11am (answer in degrees/hour)?
  - d) At what rate did the water cool between 3pm and 4pm (answer in degrees/hour)?
  - e) During what times was the water temperature change most rapid?
  - f) When turned to full, the cooler can drop the temperature by 1 degree every 10 minutes. At this rate, how long would it take to change the temperature from 10 degrees to 5 degrees?