

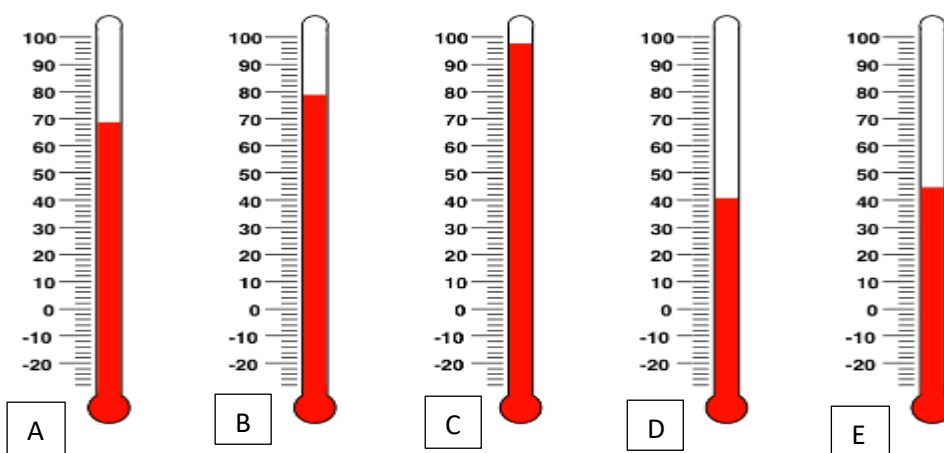
1. The Bunsen burner. Answer the following questions by **circling the correct answer**.

a. Before a Bunsen burner is switched on, should the air hole be open or closed? (1)

b. What colour of flame should be used for heating up water in a beaker? (blue/yellow) (1)

c. Write down one safety precaution that you must take when using a Bunsen burner. (1)

2. a. Read and record the temperature on thermometers A – E. (5)



A = _____ °C

C = _____ °C

B = _____ °C

D = _____ °C

E = _____ °C

b. How much higher is the temperature on thermometer B compared to D? (1)

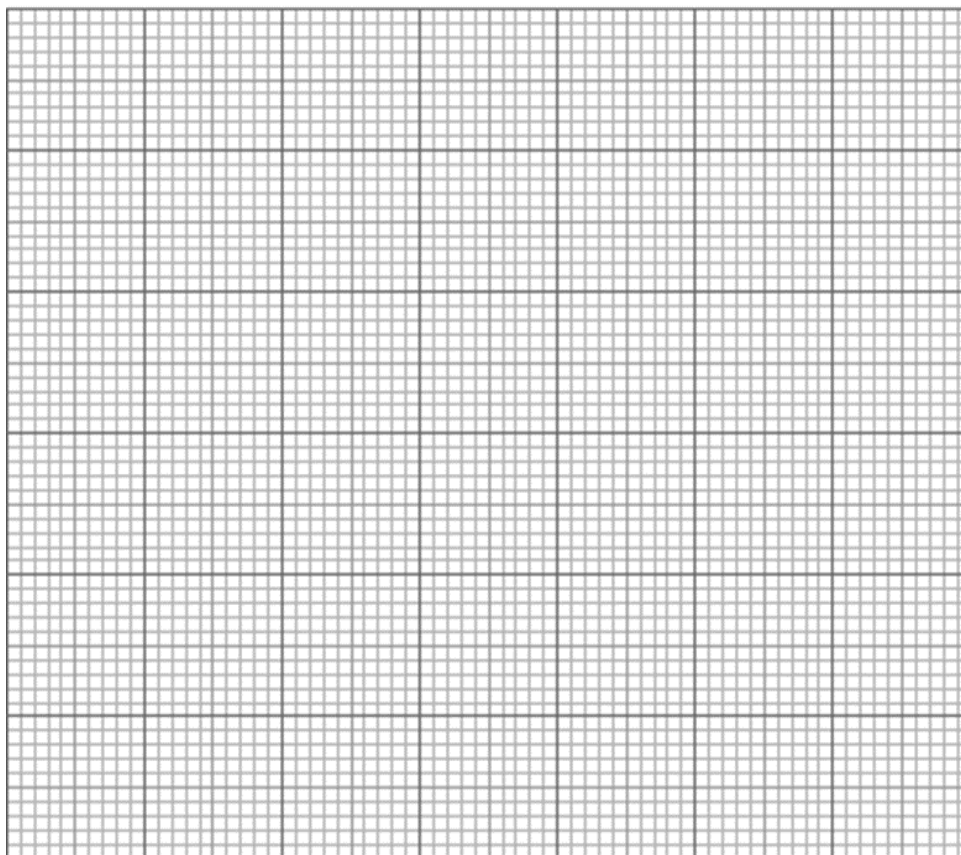
_____ °C

3. 100ml of water was heated in a beaker over a Bunsen burner for 5 minutes and the temperature was recorded with a thermometer every minute. The results are shown in the table below.

Time (min)	Temperature (°C)
0	20
2	52
3	75
4	90
5	90

- a. Draw a **line graph** of the above information on the **graph paper** below.

(4)



Question 3 (cont.)

- b. **Describe** what happens to the temperature of the water over the 5 minute period. (2)

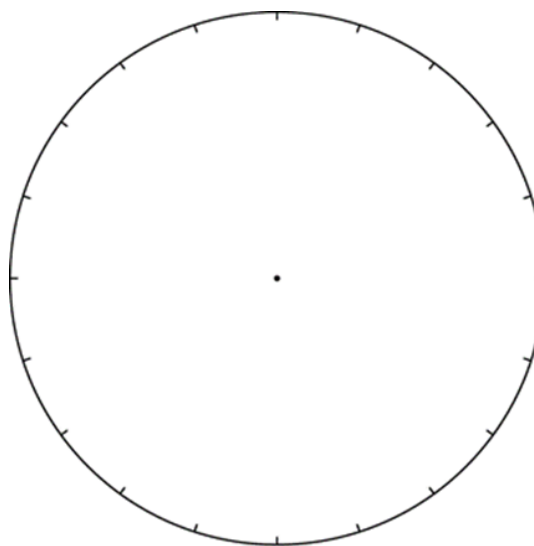
- c. **Predict** what the temperature would be at **6 minutes** and give a reason why you have made that prediction. (2)

Prediction = _____ °C

Reason = _____

4. A survey was carried out with some first year students to find out the most common hair colour in 1st year. It was found that 20% had light brown hair, 30% had dark brown hair, 10% had red hair, and the remaining students had blonde hair.

- a. What percentage of students had **blonde** hair? _____ % (1)
- b. Complete the **pie chart** below to show the **percentage of students** with light brown, dark brown, red and blonde hair in the first year group. (2)



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