



- 1) 50°C
- 2) *minute 3*
- 3) 5°C
- 4) 2°C
- 5) $3\frac{1}{2}$ minutes
- 6) 19°C



- 1) After two minutes, the difference in temperature between the two drinks was 1°C . **True.**
- 2) After three minutes, the orange juice was cooler than the blackcurrant squash. **False. Accept any answer that explains that Kayden may have muddled up the lines for the orange juice and the blackcurrant squash. Alternatively, he may have looked at the wrong time on the graph, for example at 1 minute, 2 minutes or 5 minutes.**
- 3) The temperature of the blackcurrant squash dropped by 5°C between minute 2 and 3. **False. Accept any answer that explains that Molly has wrongly calculated the difference between 51°C and 47°C . It should be 4°C .**
- 4) There was never more than a difference of 2°C between the temperatures of the two drinks. **True.**



- 1)
 - a) *A – the graph shows that the hot chocolate starts off hot and cools down gradually.*
 - b) *C – the graph shows that the soup starts off cold, while Ayaan is pouring it into the saucepan, and then warms up gradually.*
 - c) *B – the graph shows that the juice starts off cold, heats up very quickly and then cools down gradually.*
- 2) **Answers will vary. Accept any answer that describes the soup starting off at a high temperature, cooling down gradually and then being quickly reheated.**