



FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Entry Level 3

Temperature

Materials

- You **cannot** use a calculator for **questions** with this symbol.



Instructions

- Answer **all** questions.
- Answer questions on separate paper.

Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.



Q1

Match these descriptions to their suitable temperatures.

A warm day in
the UK

180°C

Temperature
at which water
boils

3°C

The inside of
an oven

100°C

Temperature
of a
refrigerator

22°C

[4 marks]

Q2 Find the following temperature differences:

2(a) $9^{\circ}\text{C} - 3^{\circ}\text{C}$ [1 mark]

2(b) $38^{\circ}\text{C} - 24^{\circ}\text{C}$ [1 mark]

2(c) $16^{\circ}\text{C} - 7^{\circ}\text{C}$ [1 mark]

2(d) $24^{\circ}\text{C} - 8^{\circ}\text{C}$ [1 mark]

2(e) $100^{\circ}\text{C} - 70^{\circ}\text{C}$ [1 mark]

2(f) $131^{\circ}\text{C} - 82^{\circ}\text{C}$ [1 mark]

2(g) $28^{\circ}\text{C} - 4^{\circ}\text{C}$ [1 mark]

2(h) $282^{\circ}\text{C} - 188^{\circ}\text{C}$ [1 mark]

2(i) $1200^{\circ}\text{C} - 600^{\circ}\text{C}$ [1 mark]

2(j) $1335^{\circ}\text{C} - 894^{\circ}\text{C}$ [1 mark]



Q3 Zoe comes across some temperatures in her day to day life.

3(a) When cooking dinner, Zoe's chicken needs to be cooked at 160°C , while her chips need to be cooked at 220°C . What is the cooking temperature difference?

[1 mark]

3(b) Zoe's refrigerator has a working temperature of between 2°C and 8°C . What is the difference between the highest and lowest temperatures the fridge can work at?

[1 mark]

3(c) The following day, Zoe is studying for her physics exam and notices that it says the temperature of the surface of the sun varies from 5000°C to 10000°C . What is the difference between the highest and lowest temperatures of the surface of the sun?

[1 mark]

3(d) Zoe puts her heating on that night, and sees her thermostat runs from 13°C to 28°C . What is the difference between the highest and lowest temperatures of the thermostat?

[1 mark]

3(e) The heating raises the temperature of Zoe's house by 8°C , from a start of 15°C . What is the new temperature of Zoe's house?

[1 mark]



Q4 Select the largest temperatures out of these groups:

4(a) 7°C, 8°C [1 mark]

4(b) 38°C, 24°C [1 mark]

4(c) 21°C, 150°C [1 mark]

4(d) 21°C, 41°C [1 mark]

4(e) 130°C, 190°C [1 mark]

4(f) 81°C, 87°C, 78°C [1 mark]

4(g) 330°C, 920°C, 110°C [1 mark]

4(h) 27°C, 29°C, 28°C [1 mark]

4(i) 49°C, 57°C, 54°C, 61°C [1 mark]

4(j) 1124°C, 1138°C, 1129°C, 1119°C [1 mark]



Q5 Allie, Benjamin and Catarina are all taking their temperature as part of an experiment.
Allie's temperature is 37.1°C
Benjamin's temperature is 36.8°C
Catarina's temperature is 37.3°C

5(a) Put them in order of temperature.

[1 mark]

5(b) Healthy body temperature is 37.0°C. Which of them are under healthy body temperature and which of them are over healthy body temperature?

[2 marks]

5(c) A dangerous body temperature is less than 36.5°C or greater than 38.5°C. Do any of them have a dangerous body temperature?

[1 mark]



Q6 The calendar below lists the highest temperatures for each day July.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30 19°C	1 29°C	2 26°C	3 27°C	4 24°C	5 22°C	6 21°C
7 19°C	8 23°C	9 22°C	10 22°C	11 24°C	12 25°C	13 26°C
14 26°C	15 28°C	16 31°C	17 32°C	18 30°C	19 26°C	20 22°C
21 19°C	22 21°C	23 24°C	24 22°C	25 23°C	26 22°C	27 19°C
28 18°C	29 17°C	30 17°C	31 15°C	1	2	3

6(a) What temperature was it on Sunday 6th July?

[1 mark]

6(b) On how many Thursdays was it 22°C?

[1 mark]

6(c) Which day was warmer – Wednesday 16th July or Monday 28th July?

[2 marks]