1. **Equations**

    Solve these equations.

    $$a + 12 = 24$$

    ✎ a = …………………

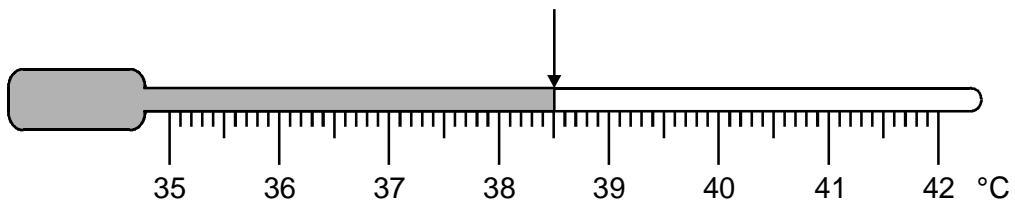   1 mark

    $$b - 12 = 24$$

    ✎ b = ………………

    1 mark

2. (a) The thermometer shows Alan's temperature.

    Alan's normal temperature is **37.0**°C
    How many degrees **higher than normal** is Alan's temperature?
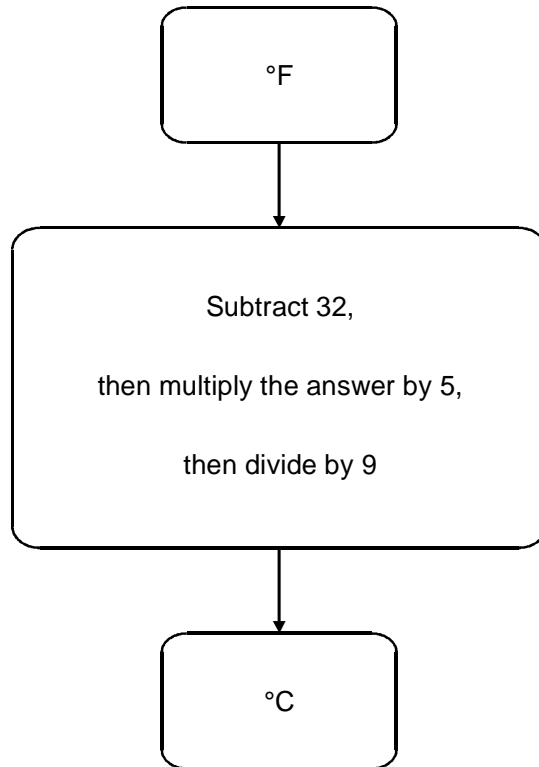
    ✎

    | °C |

    1 mark

    (b) On Monday morning, Bina's temperature was **39.2**°C
    By Tuesday morning, Bina's temperature had **fallen** by **1.3**°C

    What was Bina's temperature on Tuesday morning?

    ✎

    | °C |

    1 mark

(c)   You can measure temperature in °C or in °F
       The diagram shows how to change °F to °C

$$\boxed{°F}$$

$$\downarrow$$

$$\boxed{\text{Subtract 32,} \\ \text{then multiply the answer by 5,} \\ \text{then divide by 9}}$$

$$\downarrow$$

$$\boxed{°C}$$

The highest temperature ever recorded in a human was **115.7°F**

What is this temperature in **°C**?
Show your working.

✎

	°C

2 marks

3.   **ABC**

Work out the values of a, b and c in the number sentence below.

✎

3 × 10 + 4 = a a = ...

1 mark

3 × 10 + b = 38 b = ...

1 mark

c × 10 + 12 = 52 c = ...

1 mark

4. **Temperatures**

A book shows two ways to change °C to °F

exact rule	approximate rule
multiply the °C temperature by 1.8 then add 32	double the °C temperature then add 30

(a) Fill in the gaps.

Using the **exact** rule, **25°C** is …………… °F

1 mark

Using the **approximate** rule, **25°C** is ……………°F

1 mark

(b) Fill in the gaps.

Using the **exact** rule, **0°C** is …………… °F

Using the **approximate** rule, **0°C** is …………… °F

1 mark

(c) Show that at **10°C**, the exact rule and the approximate rule give the same answers.

2 marks