1   At noon the temperature was 4 °C.
     At midnight the temperature was −5.5 °C.

     Work out the difference in temperature between noon and midnight.

$4 - (-5.5)$
$= 4 + 5.5$
$= 9.5$

Answer .... 9.5 .... °C [1]

2   Use your calculator to work out $\sqrt{10 + 0.6 \times (8.3^2 + 5)}$.

7.37160017...
≈ 7.37

Answer .... 7.37 .... [1]

3   Write 270 000 in standard form.

2.7×10^5

Answer .... 2.7×10^5 .... [1]

4   Expand and simplify.

$x(2x + 3) + 5(x - 7)$
$2x^2 + 3x + 5x - 35$
$2x^2 + 8x - 35$

Answer .... $2x^2 + 8x - 35$ .... [2]

5   Paul and Sammy take part in a race.

     The probability that Paul wins the race is $\frac{9}{35}$.

     The probability that Sammy wins the race is 26%.

     Who is more likely to win the race?
     Give a reason for your answer.

Paul: $\frac{9}{35} \times 100\% = 25.7\%$

Sammy $= 26\%$

Answer .... Sammy .... because .... greater probability .... [2]