IGCSE – STANDARD FORM 2

4   (a) Yellow light has a frequency of 5.17×10^{14} hertz.
        Green light has a frequency of 5.66×10^{14} hertz.
        Work out the difference between these two frequencies.
        Give your answer in standard form.

Answer (a) .... hertz [1]

(b) One nanometre is 10^{-9} metres. Green light has a wavelength of 530 nanometres.
    Write this wavelength in metres, in standard form.

Answer (b) .... m [1]

May 02 Paper 2

1   Javed says that his eyes will blink 415 000 000 times in 79 years.

(a) Write 415 000 000 in standard form.

Answer (a) .... [1]

(b) One year is approximately 526 000 minutes.
    Calculate, correct to the nearest whole number, the average number of times his eyes will blink
    per minute.

Answer (b) .... [1]