

National 4
Homework Exercise 22
Standard Form

Q1 Write these numbers in scientific notation

a) 8 000

b) 21 400

c) 342 000

c) 0.0038

d) 0.000 45

d) 0.000 000 225

Q2 Write these numbers out in normal form

a) 4.38×10^4

b) 2.3×10^3

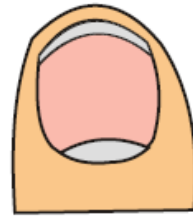
c) 3.54×10^6

c) 1.48×10^{-4}

d) 4.9×10^{-6}

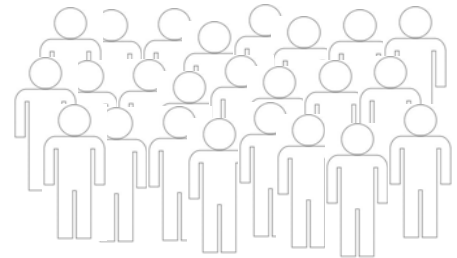
d) 6.21×10^{-8}

Q3 Adult fingernails grow about 0.02 inches per week. Express this rate in scientific notation.



Q4 The first set of results from the 2011 Census in Scotland have shown that the population of the country was 5,295,000

Express this value in scientific notation



Q5 Which of the following numbers are not in scientific notation

a) 8.3×10^3

b) 9.07×10^2

c) 0.65×10^8

c) 18×10^2

d) 4×10^{-60}

d) 1.1×100^{-2}

e) 5×10

Q6 The average radius of the earth is 6.371×10^3

Calculate the diameter of the earth giving your answer in scientific notation.

