



Lesmahagow High School

Mathematics Department

Scientific Notation – Non-Calculator

1. Calculate the following

(a) $(2.2 \times 10^5) \times (4 \times 10^6)$

(b) $(3.15 \times 10^7) \times (2.2 \times 10^8)$

(c) $(1.8 \times 10^3) \times (2.3 \times 10^4)$

(d) $(9.1 \times 10^6) \times (1.5 \times 10^{12})$

(e) $(1.4 \times 10^{13}) \times (4.9 \times 10^{11})$

(f) $(2.3 \times 10^5) \times (2.4 \times 10^7)$

(g) $(4.25 \times 10^4) \times (2.8 \times 10^2)$

(h) $(1.95 \times 10^{-8}) \times (3.2 \times 10^9)$

(i) $(8.7 \times 10^5) \times (7.3 \times 10^{-10})$

(j) $(5.05 \times 10^{-21}) \times (1.8 \times 10^{-17})$

2. Calculate the following

(k) $(2.2 \times 10^{15}) \div (4 \times 10^8)$

(l) $(3.15 \times 10^4) \div (5 \times 10^{13})$

(m) $(1.8 \times 10^{23}) \div (2.4 \times 10^7)$

(n) $(1.302 \times 10^{14}) \div (1.4 \times 10^8)$

(o) $(1.131 \times 10^{18}) \div (8.7 \times 10^{10})$

(p) $(8.25 \times 10^5) \div (3.3 \times 10^{-7})$

(q) $(4.25 \times 10^{-14}) \div (2.5 \times 10^{-5})$

(r) $(8.82 \times 10^{-22}) \div (6.3 \times 10^{11})$

(s) $(9.167 \times 10^4) \div (1.03 \times 10^{-4})$

(t) $(6.846 \times 10^{34}) \div (6.52 \times 10^{15})$

(u) $\frac{1.28 \times 10^6}{0.4 \times 10^2}$

(v) $\frac{4.17 \times 10^2}{3 \times 10^{-3}}$

(w) $\frac{18 \times 10^{-2}}{0.2 \times 10^5}$