

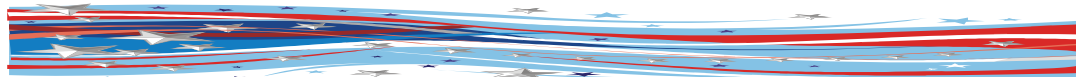
SCIENTIFIC NOTATION

SKILLS QUESTIONS



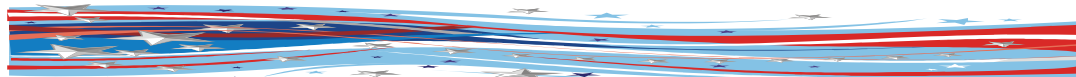
Q1. Convert these to scientific notation.

- | | | | |
|------------|-------------|---------------|---------------|
| (a) 456900 | (b) 3456.23 | (c) 56.98 | (d) 98032.1 |
| (e) 34000 | (f) 32.1209 | (g) 45.903 | (h) 12.3 |
| (i) 0.0056 | (j) 0.035 | (k) 0.0082303 | (l) 0.421 |
| (m) 0.908 | (n) 0.00045 | (o) 0.23801 | (p) 0.0000056 |



Q2. Convert the following numbers in scientific notation to normal numbers:

- | | | | |
|--------------------------|----------------------------|----------------------------|---------------------------|
| (a) 5.3665×10^3 | (b) 3.4×10^4 | (c) 5.8×10^7 | (d) 2.13×10^3 |
| (e) 7.8903×10^5 | (f) 2.6×10^6 | (g) 4.703×10^1 | (h) 8.54×10^4 |
| (i) 3.4×10^{-3} | (j) 2.56×10^{-4} | (k) 5.2×10^{-2} | (l) 1.68×10^{-5} |
| (m) 4.7×10^{-2} | (n) 3.965×10^{-5} | (o) 2.575×10^{-4} | (p) 2.54×10^{-2} |



Q3. Write your answer for each of the following in scientific notation:

- | | |
|--|--|
| (a) $4 \times 10^3 \times 5 \times 10^6$ | (b) $3 \times 10^5 \times 8 \times 10^2$ |
| (c) $6 \times 10^2 \times 9 \times 10^5$ | (d) $1.2 \times 10^2 \times 2.5 \times 10^3$ |
| (e) $2 \times 10^{-2} \times 3 \times 10^{-4}$ | (f) $4 \times 10^{-3} \times 6 \times 10^{-3}$ |
| (g) $1.2 \times 10^{-3} \times 3 \times 10^{-2}$ | (h) $4.1 \times 10^3 \times 3 \times 10^{-2}$ |
| (i) $6 \times 10^{-2} \div (2 \times 10^2)$ | (j) $8 \times 10^{-2} \div (2 \times 10^{-3})$ |
| (k) $6 \times 10^{-2} \div 2 \times 10^2$ | (l) $8 \times 10^{-2} \div 2 \times 10^{-3}$ |

ANSWERS

- Q1.(a) 4.569×10^5
(b) 3.45623×10^3
(c) 5.698×10^1
(d) 9.80321×10^4
(e) 3.4×10^4
(f) 3.21209×10^1
(g) 4.5903×10^1
(h) 1.23×10^1
(i) 5.6×10^{-3}
(j) 3.5×10^{-2}
(k) 8.2303×10^{-3}
(l) 4.21×10^{-1}
(m) 9.08×10^{-1}
(n) 4.5×10^{-4}
(o) 2.3801×10^{-1}
(p) 5.6×10^{-6}

- Q2.(a) 5366.5
(b) 34000
(c) 58 000 000
(d) 2130
(e) 789 030
(f) 2 600 000
(g) 47.03
(h) 85 400
(i) 0.0034
(j) 0.000256
(k) 0.052

- Q3.(a) 2×10^{10}
(b) 2.4×10^8
(c) 5.4×10^8
(d) 3×10^5
(e) 6×10^{-6}
(f) 2.4×10^{-5}
(g) 3.6×10^{-5}
(h) 1.23×10^2
(i) 3×10^{-4}
(j) 4×10^1
(k) $3 \times 10^0 = 3$
(l) 4×10^{-5}