

Practicing scientific notation and all that

A.) Convert to scientific notation: E.g. $20,000,000 = 2 \times 10^7$

- 1.) $0.003 =$ _____ 2.) $100,000 =$ _____
3.) $0.210 =$ _____ 4.) $7,800 =$ _____

B.) Convert from scientific notation: E.g. $3.4 \times 10^{-3} = 0.0034$

- 1.) $5 \times 10^4 =$ _____ 2.) $6 \times 10^{-2} =$ _____
3.) $6.58 \times 10^5 =$ _____

C.) Carry out the multiplication or division E.g.

$$3 \times 10^{-3} \times .2 = 3 \times 10^{-3} \times 2 \times 10^{-1} = (3 \times 2) \times (10^{-3} \times 10^{-1}) = 6 \times 10^{-4}$$

1. $1 \times 10^4 \times 3 \times 10^2 =$

2. $2 \times 10^{-2} \times 4.4 \times 10^3 =$

3. $10^{-3} / 10^{-6} =$

4. $3.2 \times 10^2 / 0.08 =$

D.) Convert metric quantities

1. 2.5 meters -> millimeters
2. 68 grams -> kilograms
3. 3×10^4 meters -> kilometers