

**1D Express numbers in scientific notation, including negative exponents, in appropriate problem situations**

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1. The speed of light through glass is about  $1.22 \times 10^5$  miles per second. Which is another way to express this measure?

- A 12,200,000 miles per second
- B 1,220,000 miles per second
- C 122,000 miles per second
- D 12,200 miles per second

2. Which is 0.00256 expressed in scientific notation?

- A  $2.56 \times 10^{-1}$
- B  $2.56 \times 10^{-2}$
- C  $2.56 \times 10^{-3}$
- D  $0.256 \times 10^{-3}$

3. The sun is 1,400,000 km in diameter. Which shows this number expressed in scientific notation?

- A  $1.4 \times 10^5$
- B  $1.4 \times 10^6$
- C  $1.4 \times 10^7$
- D  $14 \times 10^5$

4. Which is  $4.7 \times 10^{-7}$  expressed in standard notation?

- A 0.000000047
- B 0.00000047
- C 47,000,000
- D 470,000,000