

# Scientific Notation

## ① Large Numbers in Scientific Notation

Distance from Earth to the Sun

92,960,000 miles  
(7 spots)

$$9.296 \times 10^7 \text{ miles}$$

↑ Greater than or equal to 1 and less than 10

## ② Small Numbers in Scientific Notation

Width of a red blood cell

0.00000703 m  
(6 spots)

$$7.03 \times 10^{-6} \text{ m}$$

## ③ Scientific Notation → Standard Form

$$a) 3.5 \times 10^{15} = \overbrace{3,500,000,000,000,000}^{10^{15}}$$

$$b) 8 \times 10^{-9} = \overbrace{0.000000008}^{10^{-9}}$$