

# **SCIENTIFIC NOTATION**

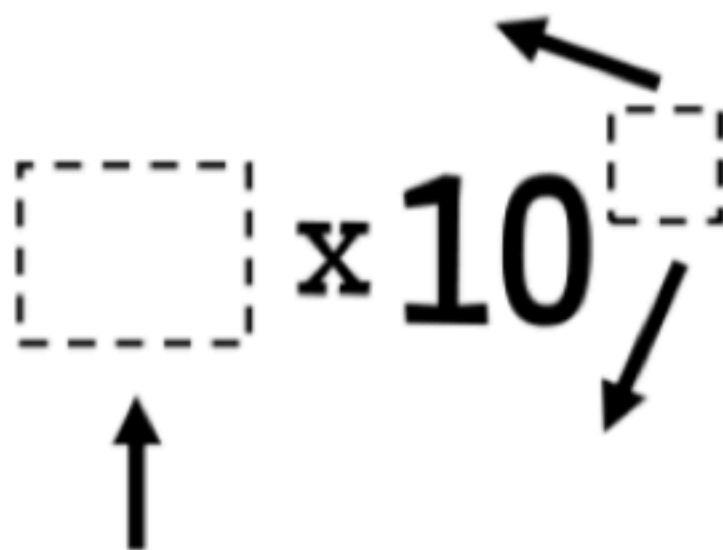
## **LEARNING GOAL**

1. I can write numbers using scientific notation.

# Scientific Notation

Why do scientists need scientific notation?

What does scientific notation look like?



# Scientific Notation or Not?

$$30,000 \times 10^{-1}$$

$$3 \times 10^3$$

$$0.3 \times 10^4$$

# Which is Greater?

$$8 \times 10^{-3}$$

$$4 \times 10^{-1}$$

Fill in the table

Decimal Notation	Scientific Notation	Rank 1 = smallest 7 = largest
	= $1 \times 10^{-2} \text{ m}$	
0.004 m	=	
200 m	=	
	= $8 \times 10^5 \text{ m}$	
40,000,000 m	=	
40 m	=	
	= $8 \times 10^{-4} \text{ m}$	

# EXERCISE 1

Convert to scientific notation:

35, 650, 000, 000

0.00051

## EXERCISE 2

Convert to decimal:

$$5.25 \cdot 10^{-5}$$

$$2.34 \cdot 10^7$$