

FILL-IN CHART

Fill in the metric chart



Part 1: complete every empty box using the word bank. Part 2 is on the back: label the staircase and finish the rules.

Name _____ Date _____ Class _____

PREFIX	SYMBOL	POWER OF 10	MULTIPLY THE BASE UNIT BY
_____	_____	10^{12}	1,000,000,000,000
giga	G	_____	_____
mega	_____	_____	1,000,000
_____	k	10^3	_____
hecto	_____	10^2	_____
_____	da	_____	10
_____	_____	10^{-1}	0.1
centi	c	_____	_____
milli	_____	_____	0.001
_____	μ	10^{-6}	_____
nano	_____	10^{-9}	_____
_____	p	_____	0.000000000001

WORD BANK

centi

deci

deka

giga

hecto

kilo

mega

micro

milli

nano

pico

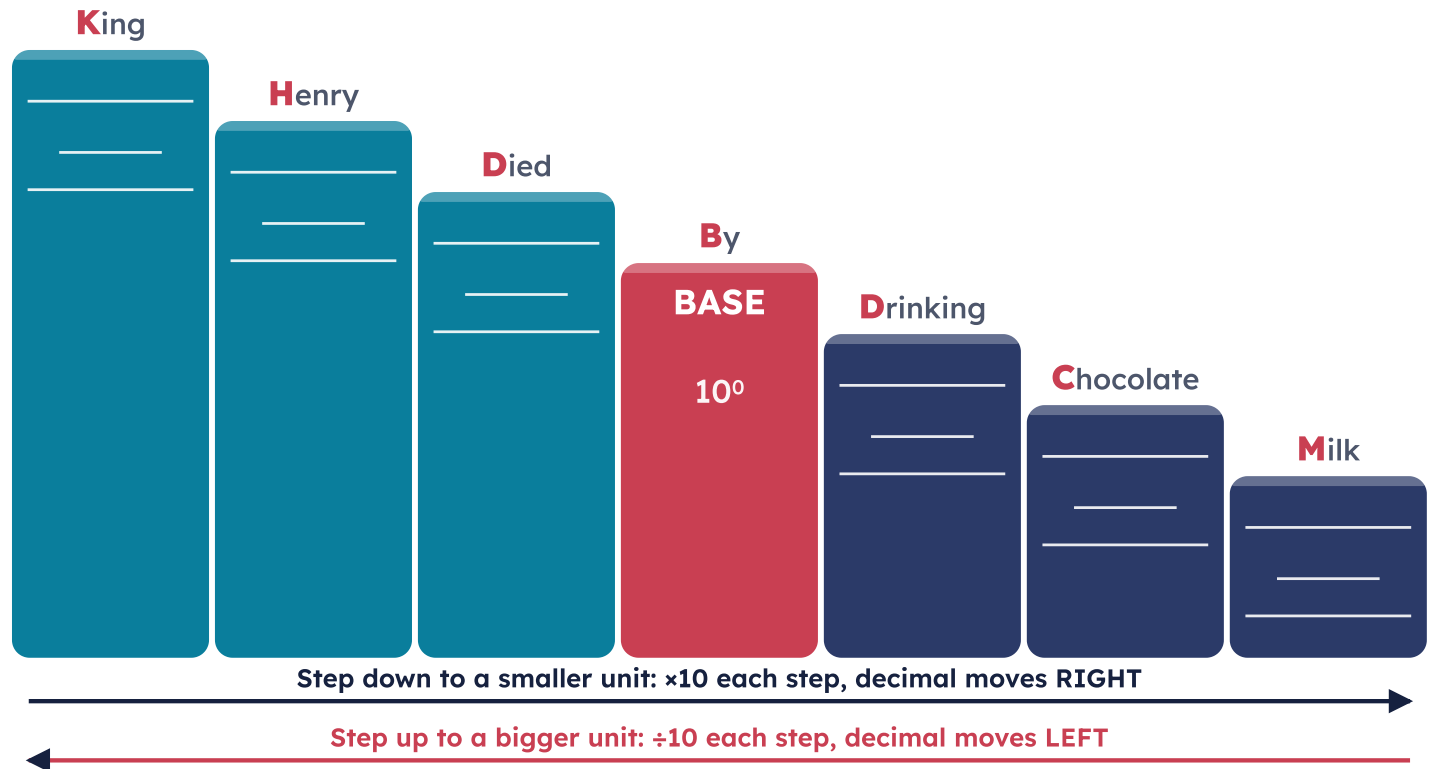
tera

Tip: Read the power of ten like a rule. 10^3 means three zeros, so kilo = 1000 times the base unit. A negative power means a fraction: 10^{-3} is one thousandth, so milli = $1/1000$.

PART 2

Label the staircase

Write the prefix name, symbol and power of ten on each step. The first letters of the mnemonic are your clue.



Base units

Length: the _____ (_____)

Mass: the _____ (_____)

Volume: the _____ (_____)



The rules

Down one step: I _____ by 10.

Up one step: I _____ by 10.

Going down, the decimal point moves _____.



Complete the facts

1 km = _____ m

1 m = _____ cm

1 cm = _____ mm

1 kg = _____ g

1 L = _____ mL



Try three

1. 49 m = _____ mm

2. 41,000 g = _____ kg

3. 57 km = _____ m