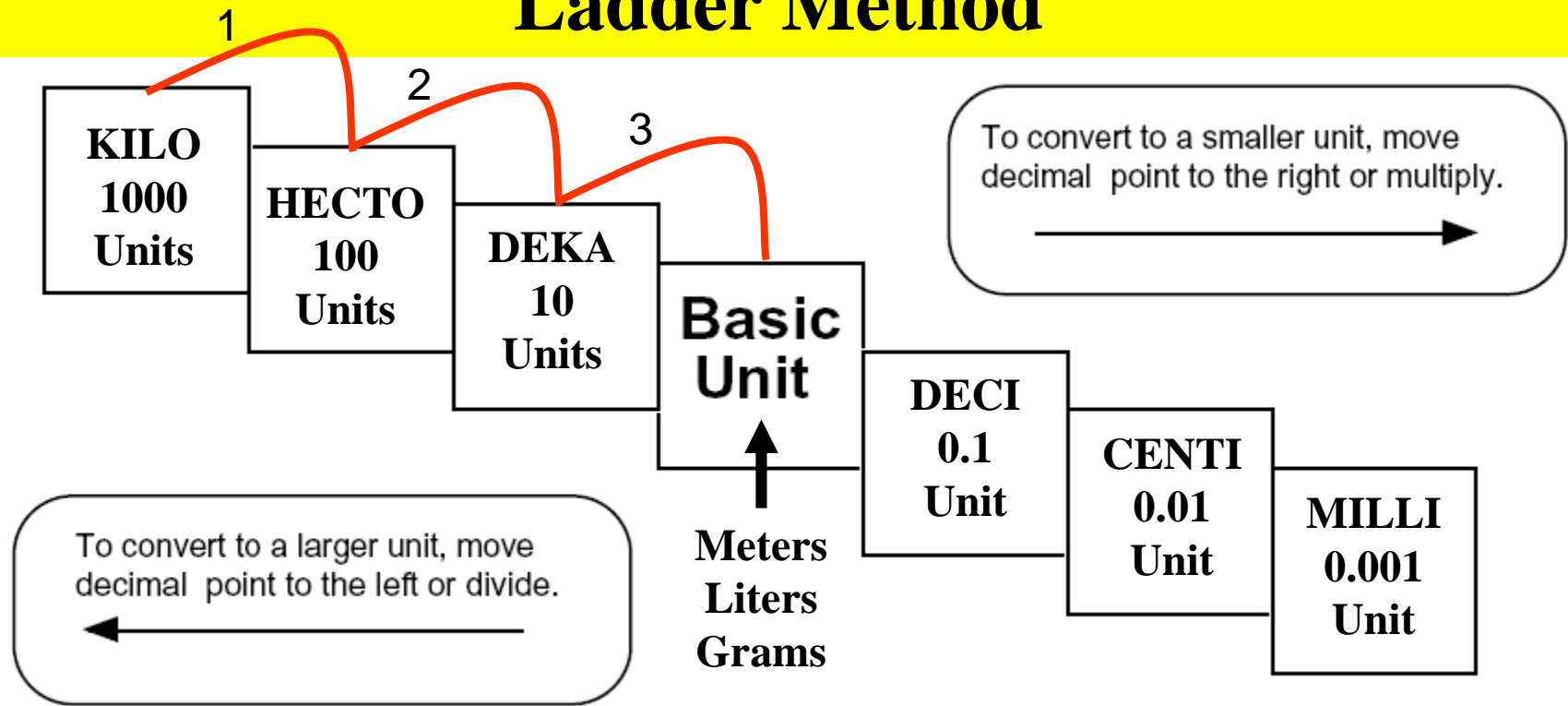


Metric Mania



Metric Conversions Ladder Method

Ladder Method



How do you use the “ladder” method?

1st – Determine your starting point.

2nd – Count the “jumps” to your ending point.

3rd – Move the decimal the same number of jumps in the same direction.

$$4 \text{ km} = \underline{\hspace{2cm}} \text{ m}$$

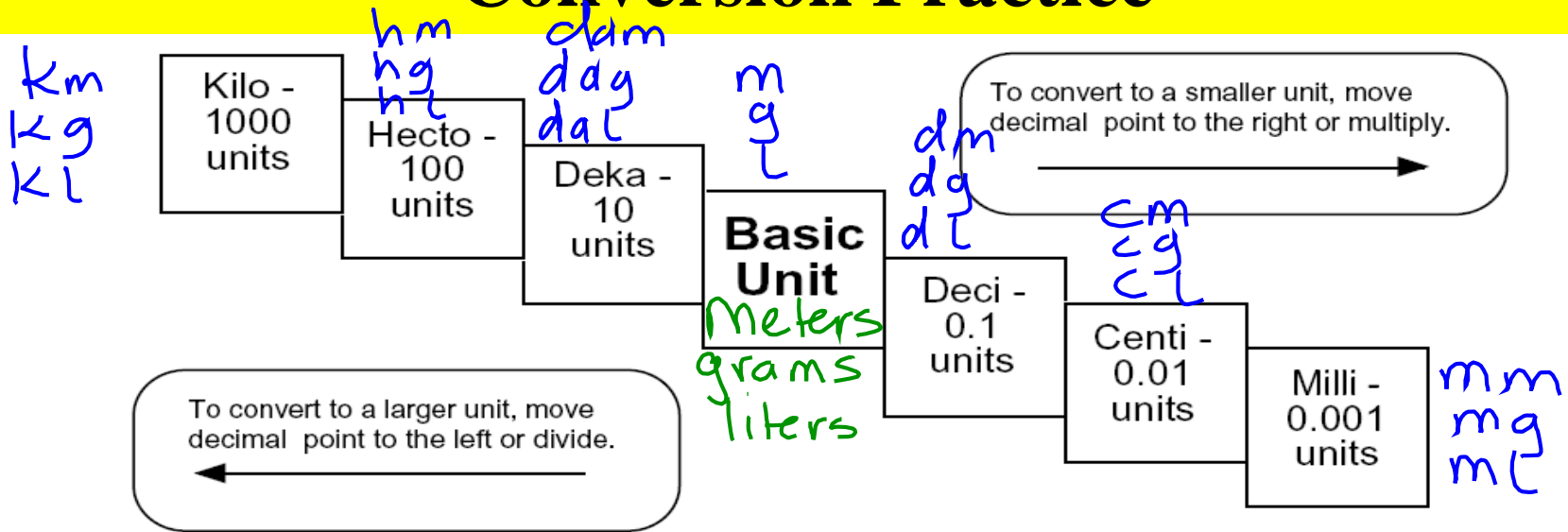
↑ Starting Point ↑ Ending Point

How many jumps does it take?

$$4.\underline{\hspace{0.5em}}\underline{\hspace{0.5em}}\underline{\hspace{0.5em}} = 4000 \text{ m}$$

1 2 3

Conversion Practice



Try these conversions using the ladder method.

$1000 \text{ mg} = \underline{1} \text{ g}$

$1 \text{ L} = \underline{1000} \text{ mL}$

$160 \text{ cm} = \underline{1600} \text{ mm}$

$14 \text{ km} = \underline{14000} \text{ m}$

$109 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

$\underline{.250} \text{ m} = \underline{.250} \text{ km}$

Compare using <, >, or =. They have to be in the same units

$56 \text{ cm} \text{ (} \text{<} \text{)} 6 \text{ m}$
 $\cdot 56 \text{ m}$

$7 \text{ g} \text{ (} \text{>} \text{)} 698 \text{ mg} \rightarrow \text{g}$
 $\cdot 698 \text{ g}$

Metric Conversion Challenge

Write the correct abbreviation for each metric unit.

1) Kilogram kg

4) Milliliter ml

7) Kilometer km

2) Meter m

5) Millimeter mm

8) Centimeter cm

3) Gram g

6) Liter L

9) Milligram mg

Try these conversions, using the ladder method.

10) 2000 mg = 2 g

15) 5 L = 5000 mL

20) 16 cm = 160 mm

11) 104 km = 104000 m

16) 198 g = .198 kg

21) 2500 m = 2.5 km

12) 480 cm = 4.8 m

17) 75 mL = .075 L

22) 65 g = 65000 mg

13) 5.6 kg = 5600 g

18) 50 cm = .50 m

23) 6.3 cm = 63 mm

14) 8 mm = .8 cm

19) 5.6 m = 560 cm

24) 120 mg = .120 g

Compare using $<$, $>$, or $=$.

25) 63 cm $<$ 6 m
600 cm

27) 5 g $>$ 508 mg
5000 g

29) 1,500 mL $=$ 1.5 L
1.5 L

26) 536 cm $=$ 53.6 dm
53.6 dm

28) 43 mg $<$ 5 g
0.043 g

30) 3.6 m $>$ 36 cm
360 cm