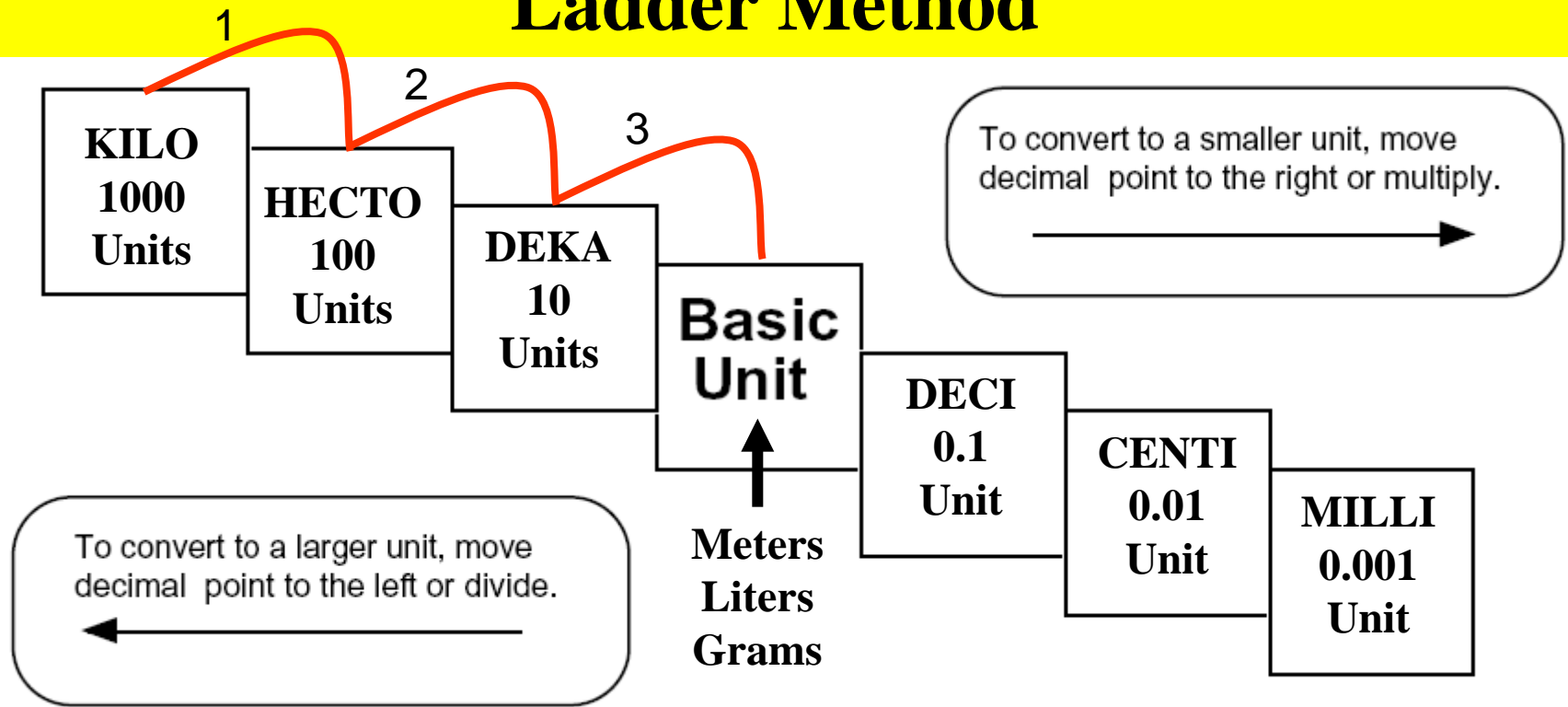


Metric Mania



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.

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

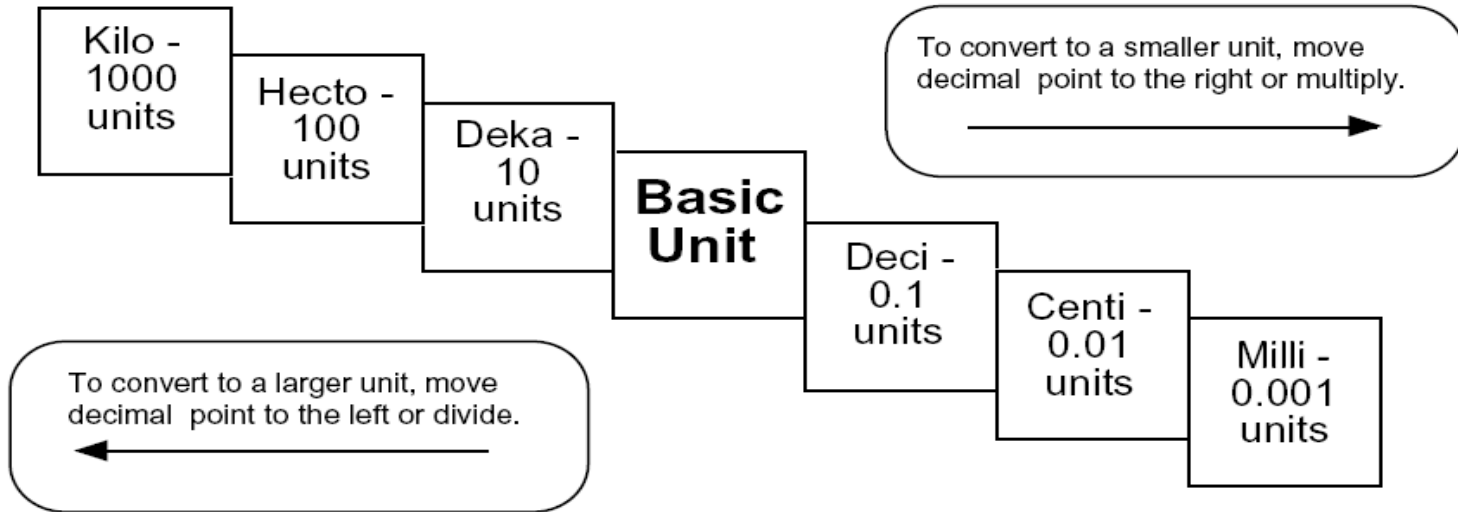
↑ Starting Point ↑ Ending Point

How many jumps does it take?

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

1 2 3

Conversion Practice



Try these conversions using the ladder method.

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

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

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

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

$$109 \text{ g} = \underline{0.109} \text{ kg}$$

$$250 \text{ m} = \underline{0.250} \text{ km}$$

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

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

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

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 = 0.075 L

22) 65 g = 65000 mg

13) 5.6 kg = 5600 g

18) 50 cm = .5 m

23) 6.3 cm = 63 mm

14) 8 mm = .8 cm

19) 5.6 m = 560 cm

24) 120 mg = 0.12 g

Compare using <, >, or =.

25) 63 cm \lt 6 m

27) 5 g \gt 508 mg

29) 1,500 mL $=$ 1.5 L

26) 536 cm $=$ 53.6 dm

28) 43 mg \lt 5 g

30) 3.6 m \gt 36 cm