

22. Unit Conversions

Weight	$1 \text{ kg} = 1000 \text{ g}$	$\leftrightarrow$	$1 \text{ g} = 1/1000 \text{ kg}$
Length	$1 \text{ km} = 1000 \text{ m}$	$\leftrightarrow$	$1 \text{ m} = 1/1000 \text{ km}$
	$1 \text{ m} = 100 \text{ cm}$	$\leftrightarrow$	$1 \text{ cm} = 1/100 \text{ m}$
	$1 \text{ cm} = 10 \text{ mm}$	$\leftrightarrow$	$1 \text{ mm} = 1/10 \text{ cm}$
Volume	$1 \text{ L} = 1000 \text{ mL}$	$\leftrightarrow$	$1 \text{ mL} = 1/1000 \text{ L}$

a)

$$3 \text{ kg} = 3 \times 1 \text{ kg} = 3 \times 1000 \text{ g} = 3000 \text{ g}$$

$$2500 \text{ g} = 2500 \times 1 \text{ g} = 2500 \times 1/1000 \text{ kg} = 2500 \div 1000 \text{ kg} = 2.5 \text{ kg}$$

$$4.5 \text{ L} = 4.5 \times 1 \text{ L} = 4.5 \times 1000 \text{ mL} = 4500 \text{ mL}$$

$$2.7 \text{ m} = 2.7 \times 1 \text{ m} = 2.7 \times 100 \text{ cm} = 270 \text{ cm}$$

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b)

$$5 \text{ km} = \boxed{} \text{ m}$$

c)

$$3600 \text{ g} = \boxed{} \text{ kg}$$

d)

$$2.3 \text{ L} = \boxed{} \text{ mL}$$

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e)

$$150 \text{ cm} = \boxed{} \text{ m}$$

f)

$$8 \text{ cm} = \boxed{} \text{ mm}$$