

KEY

**Quick Conversion Refresher – You always set-up using multiplication!**

Key Ratios for the questions below

Equation	Equation	Equation
$1\text{cm} = 10\text{mm}$	$60\text{sec} = 1\text{min}$	$7\text{day} = 1\text{week}$
$1\text{m} = 100\text{cm}$	$60\text{min} = 1\text{hr}$	$52\text{week} = 1\text{year}$
$1\text{km} = 1000\text{m}$	$24\text{hr} = 1\text{day}$	$365\text{days} = 1\text{year}$

1. How many *centimeters* are in 5.5km

$$5.5\text{km} \cdot \frac{1000\text{m}}{1\text{km}} \cdot \frac{100\text{cm}}{1\text{m}} = 550\,000\text{cm}$$

2. How many *kilometers* are in 1 234 540cm

$$1\,234\,540\text{cm} \cdot \frac{1\text{m}}{100\text{cm}} \cdot \frac{1\text{km}}{1000\text{m}} = \frac{1234540}{100\,000}\text{km} = 12.3\text{km}$$

3. How many *minutes* are there in 3 days

$$3\text{days} \cdot \frac{24\text{hr}}{1\text{day}} \cdot \frac{60\text{mins}}{1\text{hr}} = 4320\text{mins}$$

4. How many *years* are there in 234 567 890minutes

$$234\,567\,890\text{mins} \cdot \frac{1\text{hr}}{60\text{mins}} \cdot \frac{1\text{day}}{24\text{hr}} \cdot \frac{1\text{yr}}{365\text{day}}$$

$$\frac{234\,567\,890}{60 \cdot 24 \cdot 365}\text{yr} = 446.3\text{yrs}$$