Practicing Unit Conversion

Convert the following units. Show your work, using the example to guide you.

Example

Convert 2.5 m/s to km/h

$$2.5\,\frac{\cancel{m}}{\cancel{s}} \times \frac{1\,km}{1000\,\cancel{m}} \times \frac{3600\,\cancel{s}}{1\,h} = \boxed{9.0\,\frac{km}{h}}$$
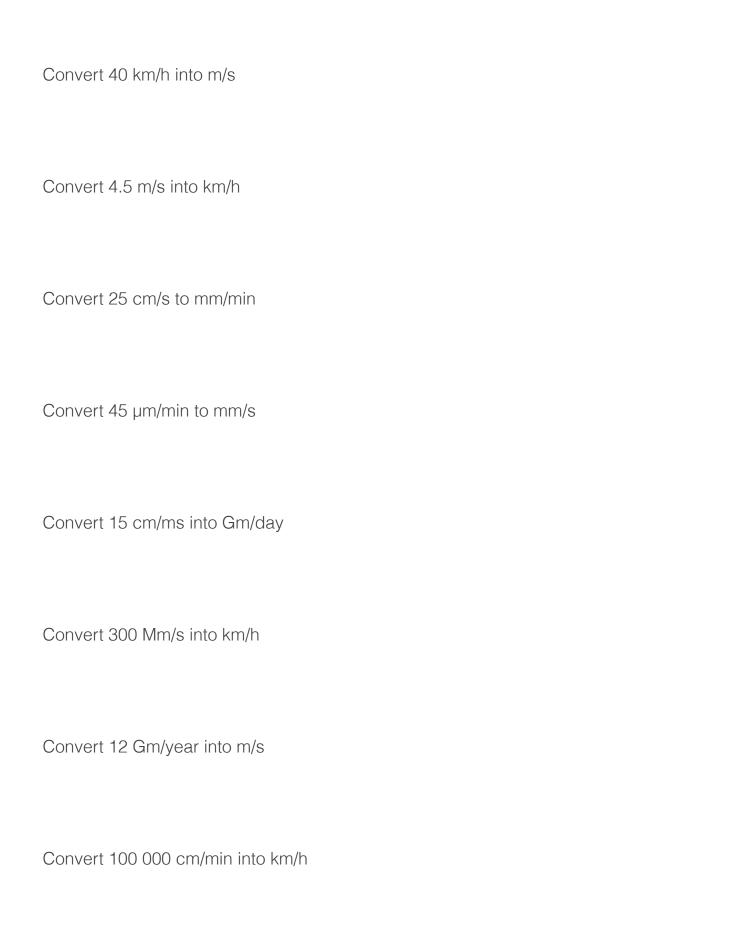
Conversions

Convert 2.5 km to Mm

Convert 12 340 cm to km

Convert 15 000 000 µm to cm

Convert 60 km/h to m/s

Convert 120 km/h into m/s

Convert 40 km/h into m/s

Convert 4.5 m/s into km/h

Convert 25 cm/s to mm/min

Convert 45 µm/min to mm/s

Convert 15 cm/ms into Gm/day

Convert 300 Mm/s into km/h

Convert 12 Gm/year into m/s

Convert 100 000 cm/min into km/h

Practicing Unit Conversion

Convert the following units. Show your work, using the example to guide you.

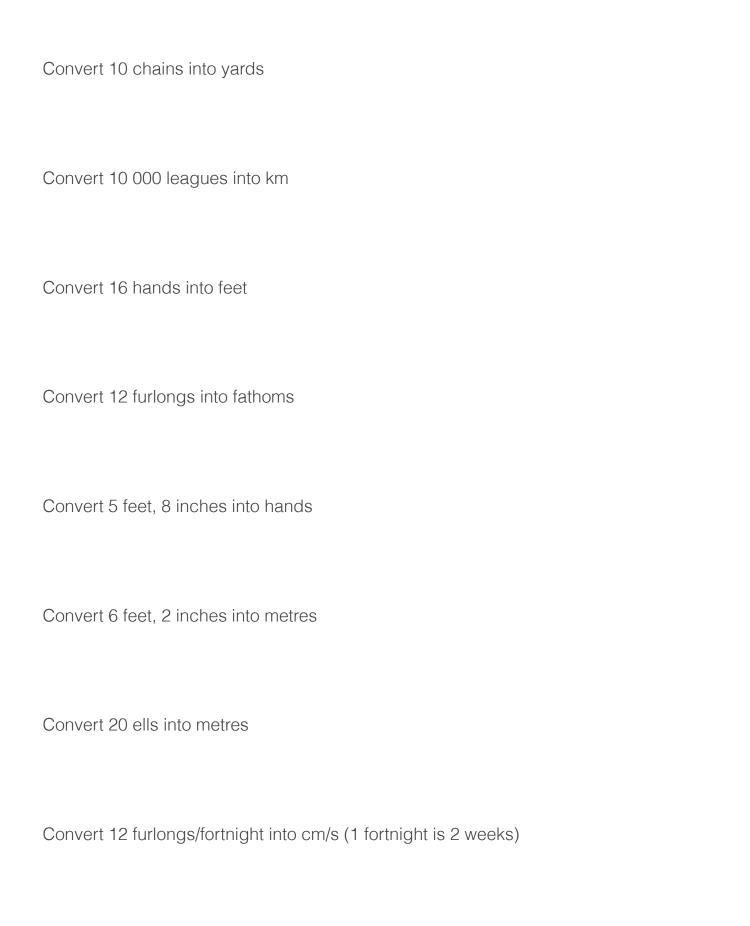| Traditional English Units			
poppyseed	1/4 of a barleycorn	foot	12 inches
barleycorn	1/3 of an inch	cubit	18 inches
digit	3/4 of an inch	yard	3 feet
finger	7/8 of an inch	ell	20 nails
inch	2.54 cm	fathom	6 feet
nail	3 digits	rod	16.5 feet
palm	3 inches	chain	66 feet
hand	4 inches	furlong	40 rods
shaftment	6 inches	mile	8 furlongs
span	3 palms	league	3 miles

Example

Convert 250 poppyseeds to nails

$$250 \text{ poppyseeds} \times \frac{1 \text{ barleycorn}}{4 \text{ poppyseeds}} \times \frac{1 \text{ inch}}{3 \text{ barleycorns}} \times \frac{1 \text{ digit}}{\frac{3}{4} \text{ inch}} \times \frac{1 \text{ nail}}{3 \text{ digits}} = 9.259259 \text{ nails} \approx \boxed{9.3 \text{ nails}}$$

Conversions

Convert 7 leagues into miles

Convert 5 furlongs into feet

Convert 10 chains into yards

Convert 10 000 leagues into km

Convert 16 hands into feet

Convert 12 furlongs into fathoms

Convert 5 feet, 8 inches into hands

Convert 6 feet, 2 inches into metres

Convert 20 ells into metres

Convert 12 furlongs/fortnight into cm/s (1 fortnight is 2 weeks)