



1. Convert the given quantities using the units in the brackets. Use scientific notation when reasonable and round to two significant digits.

20 m (cm)	
256 kg (mg)	
35 h (days)	
1340 mg (g)	
25 mL (L)	
340 μg (g)	
0.5 s (h)	
1.4 yrs (min)	

2. Convert from m/s to km/h. Show your work. Clearly identify your final answer in scientific notation and two significant digits.

a) $35 \text{ m/s} =$

b) $1.5 \text{ m/s} =$

c) $0.7 \text{ m/s} =$

3. Convert from km/h to m/s. Show your work. Clearly identify your final answer in scientific notation and two significant digits.

a) $120 \text{ km/h} =$

b) $85 \text{ km/h} =$

c) $360 \text{ km/h} =$

4. Convert to the base unit. Clearly identify your final answer in scientific notation and two significant digits.

a) $10 \text{ cm}^3 =$

b) $25 \text{ dm}^2 =$

c) $85 \text{ km}^2 =$

Bonus: a) $24 \text{ m/s}^2 (\text{km/h}^2)$

b) $2 \text{ g/cm}^3 (\text{kg/m}^3)$