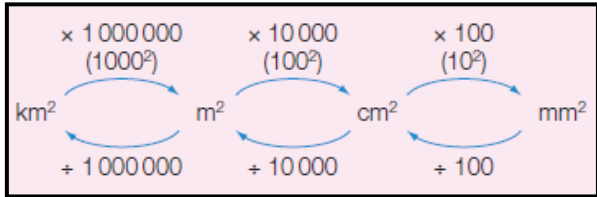


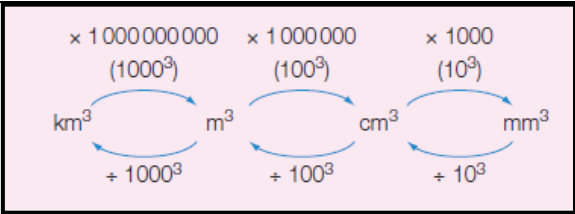
AusVELS 8.0 *Students will be able to convert between units of measurement for area and for volume.*

Measurement Conversion for Area

Step 1	Area is measured in square units.	
Step 2	Write the question.	Convert 3.5m^2 to mm^2
Step 3	<p>Indicate:</p> <ul style="list-style-type: none"> $1\text{m} = 1000\text{mm}$, therefore $1\text{m}^2 = 1000^2\text{mm}^2$ Converting from a larger unit to a smaller unit, so multiply. Use conversion chart. <p>Multiply by 1000^2 to convert from m^2 to mm^2</p> <div data-bbox="240 869 839 1064" data-label="Diagram">  <pre> graph LR km2[km²] -- "× 1 000 000 (1000²)" --> m2[m²] m2 -- "÷ 1 000 000" --> km2 m2 -- "× 10 000 (100²)" --> cm2[cm²] cm2 -- "÷ 10 000" --> m2 cm2 -- "× 100 (10²)" --> mm2[mm²] mm2 -- "÷ 100" --> cm2 </pre> </div> <p>Alternatively: To convert m^2 to mm^2</p> <ul style="list-style-type: none"> $3.5\text{m}^2 = 3.5\text{m} \times 1\text{m}$ $3.5\text{m} \times 1000 = 3500\text{mm}$ $1\text{m} \times 1000 = 1000\text{mm}$ 	3.5×1000^2 $= 3.5 \times 1\,000\,000$ $= 3,500,000\text{mm}^2$ <p>Alternatively:</p> $3.5\text{m}^2 = 3.5\text{m} \times 1\text{m}$ $= 3500\text{mm} \times 1000\text{mm}$ $= 3,500,000\text{mm}^2$
Step 4	Write the answer.	$3.5\text{m}^2 = 3\,500\,000\text{mm}^2$

Measurement Conversion for Volume

Step 1	Volume is measured in cubic units.	
Step 2	Write the question.	Convert 37000m^3 to km^3
Step 3	<p>Indicate:</p> <ul style="list-style-type: none"> $1\text{km} = 1000\text{m}$, therefore $1\text{km}^3 = 1000\text{m}^3$ Converting from a smaller unit to a larger unit, so divide. Use conversion chart. <p>Divide by 1000^3 to convert from m^3 to km^3</p>	$37000 \div 1000^3$ $= 37000 \div 1\,000\,000\,000$ $= 0.000\,037\text{km}^3$

		
Step 4	<p>Write the answer with the correct units.</p> <p>Calculator presentation of answers- standard notation.</p> <p>Write answer in standard notation.</p>	<p>$37000\text{m}^3 = 0.000\ 037\text{km}^3$</p> <p>$3.7 \times 10^{-5} \text{ km}^3$</p>