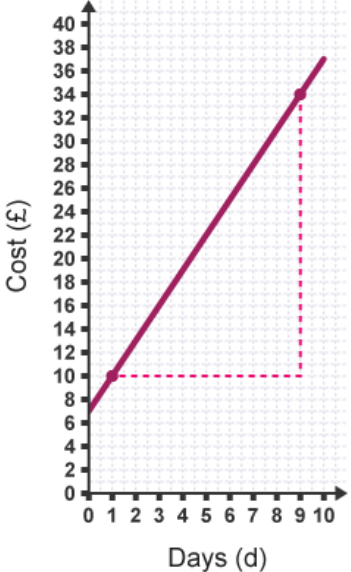
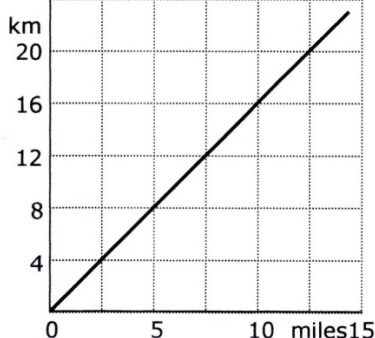
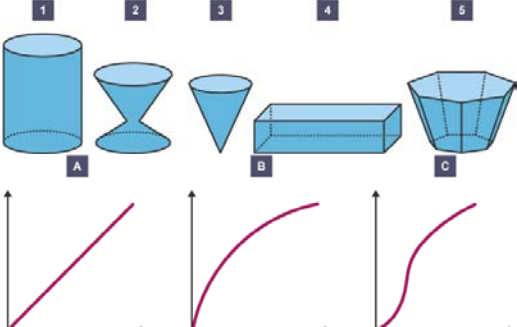


## Topic: Real Life Graphs

Topic/Skill	Definition/Tips	Example
<p>1. Real Life Graphs</p>	<p>Graphs that are supposed to model some real-life situation.</p> <p>The actual meaning of the values depends on the labels and units on each axis.</p> <p>The <b>gradient</b> might have a contextual meaning.</p> <p>The <b>y-intercept</b> might have a contextual meaning.</p> <p>The <b>area</b> under the graph might have a contextual meaning.</p>	<div style="text-align: center;">  </div> <p>A graph showing the cost of hiring a ladder for various numbers of days.</p> <p>The gradient shows the cost per day. It costs £3/day to hire the ladder.</p> <p>The y-intercept shows the additional cost/deposit/fixed charge (something not linked to how long the ladder is hired for). The additional cost is £7.</p>
<p>2. Conversion Graph</p>	<p>A line graph to <b>convert one unit to another</b>.</p> <p>Can be used to convert units (eg. miles and kilometres) or currencies (\$ and £)</p> <p>Find the value you know on one axis, read up/across to the conversion line and read the equivalent value from the other axis.</p>	<p style="text-align: center;">Conversion graph miles ↔ kilometres</p> <div style="text-align: center;">  </div> <p style="text-align: center;"><math>8 \text{ km} = 5 \text{ miles}</math></p>
<p>3. Depth of Water in Containers</p>	<p>Graphs can be used to show how the depth of water changes as different shaped containers are filled with water at a constant rate.</p>	<div style="text-align: center;">  </div>