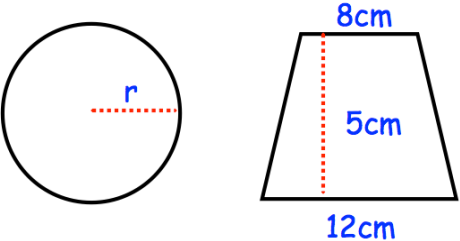


Name: _____

September 19	5-a-day	Higher
<p>How long would it take someone to run 5km at 4 metres per second?</p>		
<p>Calculate the gradient of the straight line passing through (0, 2) and (3, 11).</p>	<p>Write down the equation of the line.</p>	
<p>The trapezium and circle have the same area. Find r.</p>  <p>The diagram shows a circle on the left with a horizontal dashed red line from its center to the right edge, labeled 'r'. To its right is a trapezium with a top horizontal side labeled '8cm', a bottom horizontal side labeled '12cm', and a vertical dashed red line representing its height, labeled '5cm'.</p>		
<p>Simplify $\sqrt{1000}$</p>	<p>Simplify $3\sqrt{2} \times 3\sqrt{14}$</p>	
<p>A full water tank has sprung a leak. It loses 5% of its contents every minute.</p> <p>Work out how long until the tank loses 50% of its contents.</p>		