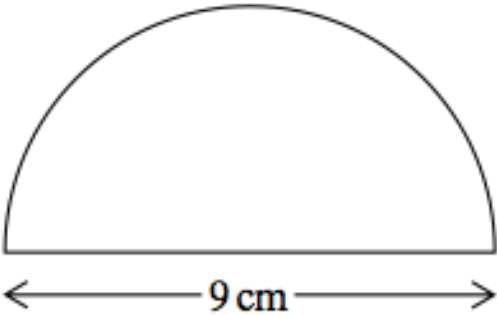
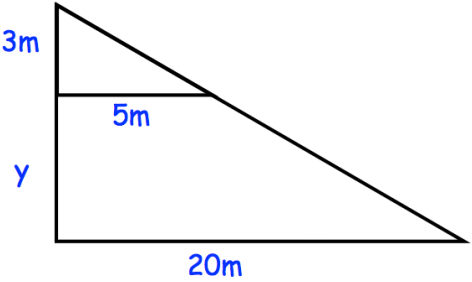


Name: _____

June 14	5-a-day	Higher
<p>Solve:</p> $5(x - 3) = 2x + 30$		
 <p>A diagram of a semi-circle. Below the straight edge (diameter), there is a double-headed arrow labeled "9 cm".</p>	Calculate the perimeter	
<p>Explain why $7x + 3$ cannot be factorised.</p>		
 <p>A right-angled triangle with a vertical side of 3m, a horizontal base of 20m, and a horizontal line segment of 5m drawn from the vertical side to the hypotenuse. The vertical side is divided into a top segment of 3m and a bottom segment labeled 'y'.</p>	Find y	
<p>The speed of a particle is 4.2×10^5 m/s</p> <p>How far does it travel in a day?</p>		Give your answer in kilometres and in standard form.