
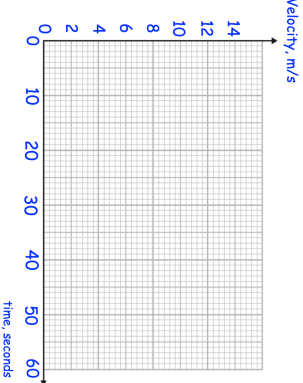
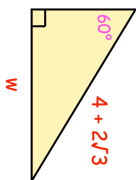

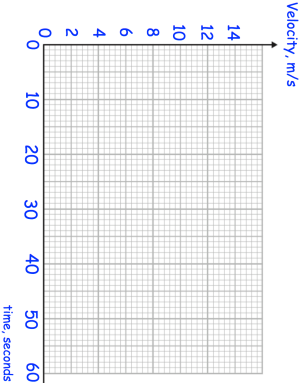
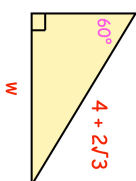


17th March	Corbettmaths 
<p>A sequence of numbers is formed by the iterative process</p> $a_{n+1} = (a_n)^2 - 5$ $a_1 = 3$	<p>Find <math>a_3</math></p>
<p>A sculptor wants to transport a piece of rock. It is a sphere with radius 0.4m to the nearest centimetre. The density of the rock is 3.4g/cm<sup>3</sup> The truck can carry up to 1000kg to one significant figure.</p> <p>Can the sculptor safely transport the rock?</p>	
<p>A remote control car drives in a straight line. It starts from rest and travels with constant acceleration for 15 seconds reaching a velocity of 10m/s. It then travels at a constant speed for 5 seconds. It then slows down with constant deceleration of 0.5m/s<sup>2</sup>.</p>	
<p>Draw a velocity-time graph and work out the total distance travelled.</p>	
	<p>Find the exact length of the side labelled <math>w</math>.</p>

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