
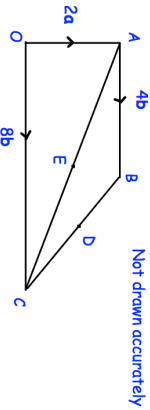

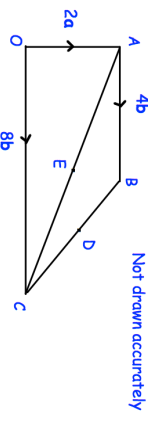


5th November	Corbettmaths 
<p>The ratio of copper to zinc in the alloy brass is 3:2</p> <p>Copper costs \$4830 per tonne</p> <p>Zinc costs \$1846 per tonne</p>	<p>Work out the cost of 500kg of brass.</p>
<p>The population of birds on an island in 2016 was 22% lower than it was in 1996.</p> <p>In 2016 the population of birds was 76440.</p>	<p>How many birds lived on the island in 1996?</p>
<p>A container exerts a force of 1200 Newtons on the floor.</p> <p>The pressure on the floor is 40 Newtons/m²</p> <p>Calculate the area of the container that is in contact with the floor.</p>	
 <p>Not drawn accurately</p> <p>$\vec{OA} = 2\mathbf{a}$ $\vec{AB} = 4\mathbf{b}$ and $\vec{OC} = 8\mathbf{b}$</p>	<p>\vec{OB}</p> <p>\vec{AC}</p>
<p>Point D is the midpoint of BC.</p> <p>Point E is the midpoint of AC.</p> <p>Write these vectors in terms of \mathbf{a} and \mathbf{b}.</p>	

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