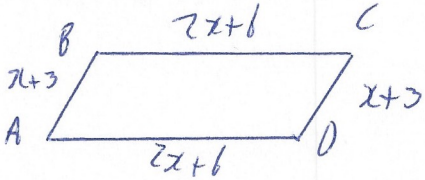
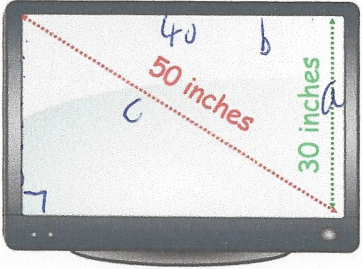


7th March	
<p>A car travels 200 miles to the nearest 10 miles. It travels for 4 hours to the nearest hour.</p> <p>Calculate the greatest possible average speed.</p>	<div style="text-align: right;">Corbettm@ths</div> $\begin{aligned} \text{Max speed} &= \frac{\text{max distance}}{\text{min time}} \\ &= \frac{205}{3.5} \\ &= 58.5714 \text{ mph} \end{aligned}$
<p>ABCD is a parallelogram. AB is $(x + 3)$cm</p> <p>BC is twice the length of AB.</p> <p>The perimeter of the parallelogram is 80cm.</p> <p>$BC = 26.666... \text{ cm}$</p>	<p>Find the length of BC.</p>  $\begin{aligned} 6x + 18 &= 80 \\ x &= 10\frac{1}{3} \text{ (or } 10.333\dots) \end{aligned}$
 <p>Area = $30 \times 40 = 1200$ square inches</p>	<p>Find the area of the TV screen shown.</p> $\begin{aligned} a^2 + b^2 &= c^2 \\ 30^2 + b^2 &= 50^2 \\ 900 + b^2 &= 2500 \\ b^2 &= 1600 \\ b &= 40 \end{aligned}$
<p>Factorise $6w^2 - 11w - 10$</p> $(2w - 5)(3w + 2)$	
<p>The length of a rectangle is increased by 20%. 1.2 The width of the rectangle is increased by 30%. 1.3</p> <p>Work out the percentage increase in area.</p>	$1.2 \times 1.3 = 1.56$ <p>56% increase</p>