
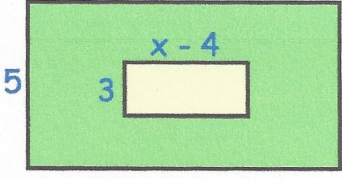
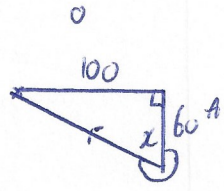


13th June		 Corbettmaths
<div style="text-align: center;"> <math>4x + 3</math>   </div> <p>Work out the area of the green shape</p>	$5(4x + 3) - 3(x - 4)$ $20x + 15 - 3x + 12$ $17x + 27$	
<p>Find the size of each interior angle of a regular 20-sided polygon.</p> $(n - 2) \times 180$ $18 \times 180 = 3240$	$3240 \div 20 = \underline{162^\circ}$	
<p>The length ratio between two similar solids is 2:3</p> <p>What is the volume ratio between the solids?</p>	$2^3 : 3^3$ $8 : 27$	
<p>A helicopter flies 100 miles East and 60 miles South and lands. The helicopter flies back on a direct course. What is its bearing?</p> $\tan x = \frac{100}{60}$ $x = \tan^{-1}\left(\frac{100}{60}\right) \quad x = 59.036^\circ$	 $360 - 59.036 = \underline{300.964}$	
<p>x is inversely proportional to the square of y</p> <p>When <math>x = 2</math>, <math>y = 9</math></p> <p>Find y when <math>x = 1</math></p> $x \propto \frac{1}{y^2}$ $x = \frac{k}{y^2}$ $2 = \frac{k}{81}$ $k = 162$	$x = \frac{162}{y^2}$ $1 = \frac{162}{y^2}$ $y^2 = 162$ $y = 9\sqrt{2} \quad (\text{or } 12.7279)$	