


17th October		 Corbettmaths
<p>Simplify</p> $\frac{x^2 + 3x}{3x^2}$	$\frac{x(x+3)}{3x^2}$	$\frac{x+3}{3x}$
<p>Work out</p> $16^{\frac{3}{2}}$	$\sqrt{16} = 4$ $4^3 = 64$	<p>Evaluate</p> $\left(\frac{16}{25}\right)^{\frac{1}{2}}$ $\frac{4}{5}$
<p>The sum of the interior angles in a polygon is 7380°.</p> <p>Calculate the number of sides the polygon has.</p>	$(n-2) \times 180 = 7380$ $n-2 = 41$ $n = 43 \text{ sides}$	
<p>Expand and simplify</p> $(2x+1)(x+3)(x+1)$ $(2x+1)(x+3) = 2x^2 + 6x + x + 3$ $= 2x^2 + 7x + 3$	$(2x^2 + 7x + 3)(x+1)$ $2x^3 + 7x^2 + 3x + 2x^2 + 7x + 3$ $= 2x^3 + 9x^2 + 10x + 3$	
<p>Matthew is playing darts. The probability he hits a bullseye is 0.4 $P(\text{miss}) = 0.6$ Matthew throws two darts.</p> <p>Find the probability Matthew does not hit the bullseye with either dart</p>	$0.6 \times 0.6 = 0.36$	