

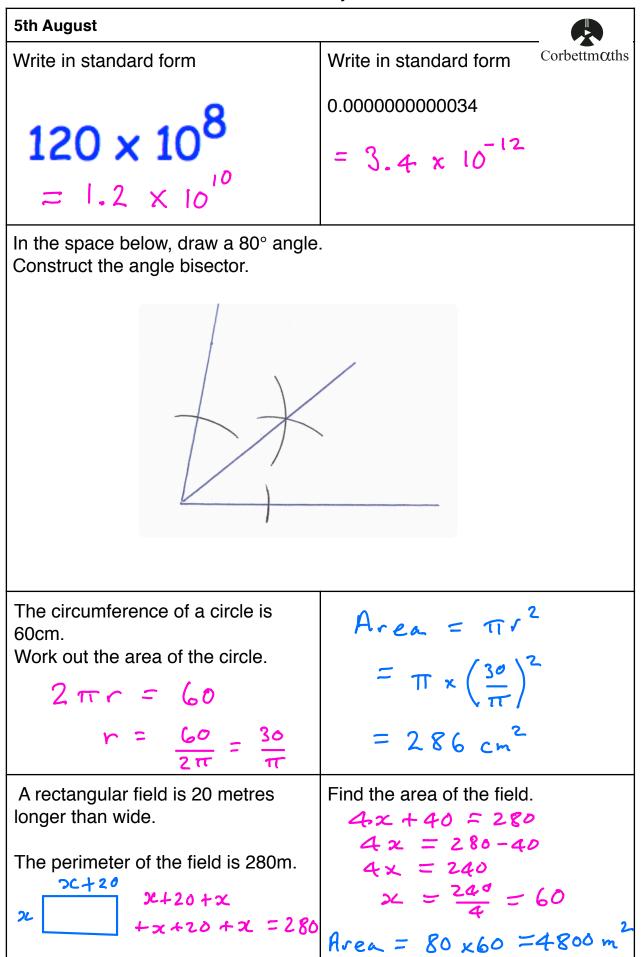
2nd August		
$\frac{\pi r^2}{4}$	Corbettmaths Calculate the area of this quarter circle $\frac{TT \times 5}{4}^{2}$ =  9.6 cm <sup>2</sup>	
The time, T, taken to serve the guests at a wedding is inversely proportional to the number of waiters, w.	Explain why. The more waiters the less guests they each have to serve so the less time it takes	
The time is calculated by $T = \frac{300}{w}$ Work out how long it would serve the guests if there were 45 waiters.	$T = \frac{300}{45} = \frac{100}{15} = 6\frac{2}{3} \text{ minutes}$	
The density of Nitrogen is $1.25 \times 10^{-6}$ kg/cm <sup>3</sup> Calculate the mass of one cubic metre of Nitrogen. $l_m^3 = l_{,000,000}$ cm <sup>3</sup>	Mass = Jensity × Volume $1.25 \times 10^{-6} \times 10^{6}$ = $1.25 \text{ kg}$	
9cm 38cm Joes Pythagoras apply	Is this triangle a right angled triangle? $q^{2} + 38^{2} = 1525$ $4l^{2} = 168l$ $1525 \neq 168l$ so not right -angled	

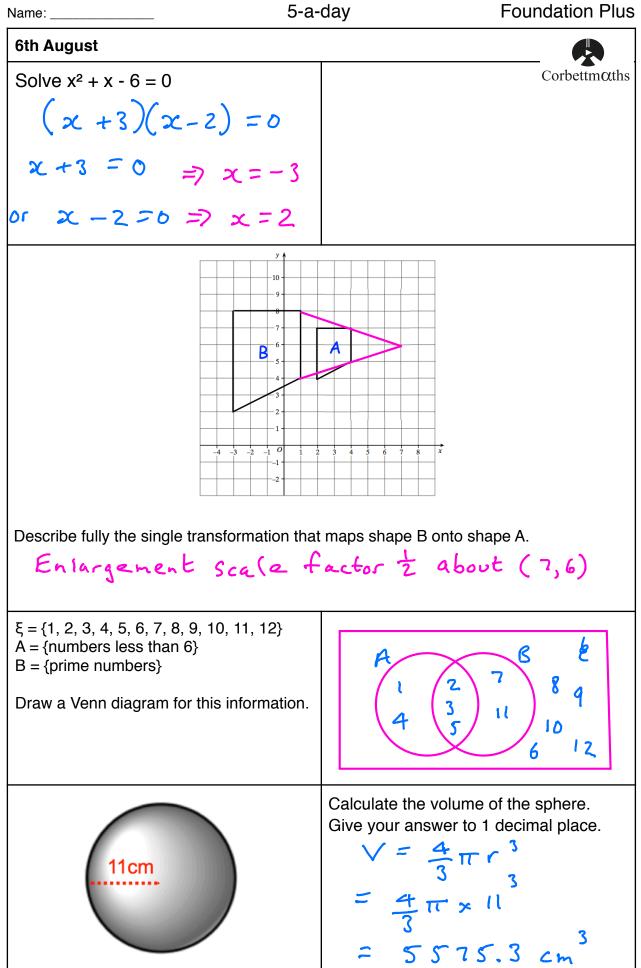
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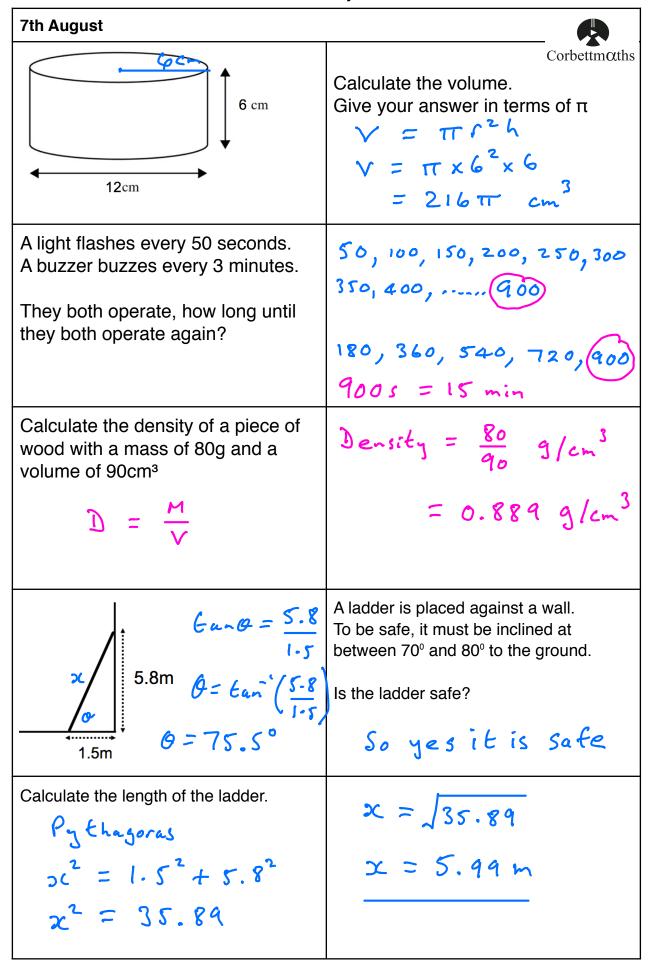
## Name: \_\_\_\_\_

3rd August	<b>P</b>
Solve $(x + 3)(x + 5) = 0$	Corbettmaths
Either x+3=0	x = -3
or $2L+5=0$	$\varkappa = -5$
Mrs Reed buys a car costing £11760 This cost includes VAT at a rate of 20%. How much is the car without VAT?	£11760 ÷ 1.20 = £9800
<ul> <li>150 students visit a school canteen.</li> <li>Some students have packed lunches.</li> <li>Some students have a cooked lunch.</li> <li>56 out of the 89 students who have packed lunch are female.</li> <li>There are 72 boys.</li> <li>Work out how many females have a cooked lunch.</li> </ul>	Packed Cooked Boys 72 Girls 56 22 78 89 150 22
9 cm 80° 9 cm Calculate the area of the sector	$\pi r^{2} \times \frac{80}{360}$ $\pi \times 9^{2} \times \frac{80}{360}$ $= 56.5 \text{ cm}^{2}$

	4th August	
	Solve	Corbettmαths
	$\frac{7x-3}{2} = 2x + 9$	7x - 4x = 18 + 3
	7x - 3 = 2(2x + q)	32 = 21
	7 - 3 = 4x + 18	$\mathcal{X} = \frac{2!}{3}$
		x = 7
	x 5.7cm <sub>H</sub>	Find x. $Sin = \frac{O}{H}$
		$\sin x = \frac{4.5}{5.7}$
	4.5cm •	$x = S(n^{-1}(\frac{4\cdot 5}{5\cdot 7}) = 52.1^{\circ}$
	Solve the simultaneous equations	Sob for y in 2
() × 4 (2) -(3)	2x - 5y = 1 (1) 8x + 3y = 27 (2)	8x + 3(1) = 27
	8 2 - 20y = 4 3	8x = 27-3 (21=3
	Z3y = 23 y=1	8x = 24 $25 = 1x = \frac{24}{8} = 3$
	Find the volume of a piece of wood that has a mass of 600g and density of 0.75g/cm <sup>3</sup>	600
		0.75
	$\bigwedge_{i} = \frac{\overline{\mathcal{P}}_{i}}{V_{i}}$	$= 800 \text{ cm}^3$
	0.84 has been rounded to two decimal places.	
	Write down an inequality to show the range of possible actual values.	$0.835 \le X < 0.845$







Name: \_\_\_

