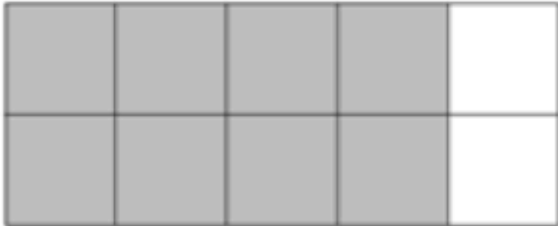
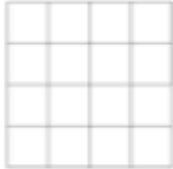
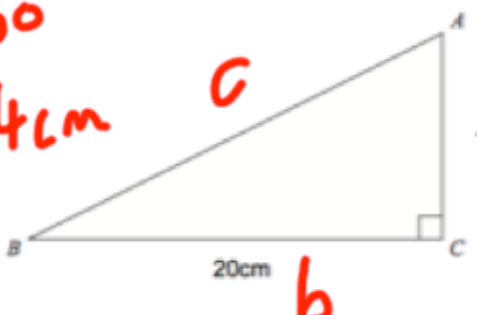
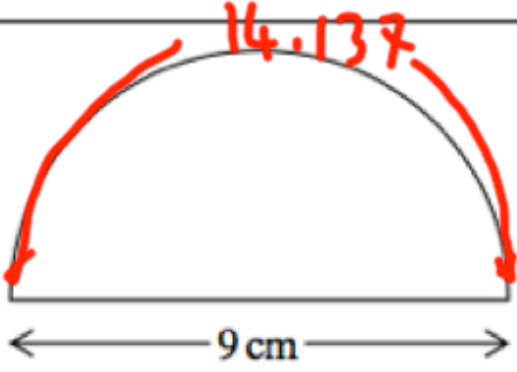
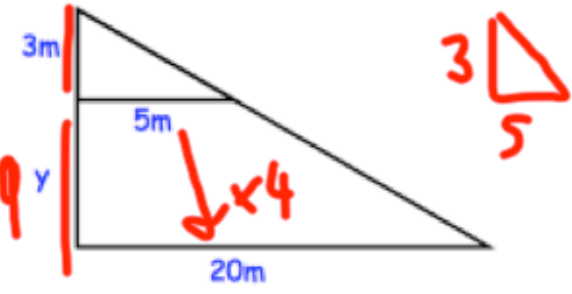



June 14th	5-a-day	Numeracy
<p>Using the digits 5, 8 and 9 only once in each number:</p> <p>Write as many three-digit numbers as you can</p>	<p>589 598 859 895</p> <p>958 985</p>	
	<p>What percentage of this grid is shaded?</p> <p>80%</p>	
<p>Harry wants to shade whole squares so that exactly $\frac{4}{5}$ is shaded. Explain why this is not possible.</p>	 <p>16 squares</p> <p>$\frac{4}{5}$ of 16 would be a decimal number</p>	
<p>Write as a mixed number</p> <p>$\frac{11}{3}$</p> <p>$3\frac{2}{3}$</p>		
<p>A tea costs 45p</p> <p>What is 45p as a fraction of £1.35</p> <p>$\frac{45}{135}$</p>	<p>Give your answer in its simplest form.</p> <p>$\frac{1}{3}$</p>	

June 14	5-a-day	Foundation
<p>Make c the subject of</p> $y = mx + c$ $-mx - mx$	$y - mx = c$	
<p>John and Sam's ages are in ratio 4:5</p> <p>John is 24.</p> <p>How old is Sam?</p>	$24 \div 4 = 6$ $6 \times 5 = 30$ <p style="text-align: right; font-size: 2em;">30</p>	
<p>Find the highest common factor of 20 and 16</p>	<p>20: 1 2 (4) 5 10 20</p> <p>16: 1 2 (4) 8 16</p> <p style="text-align: center; font-size: 2em;">4</p>	
<p>Solve $2y + 3 > 21$</p> $-3 \quad -3$ $2y > 18$ $y > 9$		
<p>Find the length of AB</p> $a^2 + b^2 = c^2$ $10^2 + 20^2 = c^2$ $100 + 400 = c^2$	$c = \sqrt{500}$ $c = 22.4 \text{ cm}$ 	

June 14	5-a-day	Higher
<p>Solve:</p> $5(x - 3) = 2x + 30$	$5x - 15 = 2x + 30$ $3x = 45$ $x = 15$	
	<p>Calculate the perimeter</p> $(\pi \times 9) \div 2 = 14.137 \text{ cm}$ $14.137 \text{ cm} + 9 \text{ cm} = 23.137 \text{ cm}$	
<p>Explain why $7x + 3$ cannot be factorised.</p>	<p>7 & 3 have no common factors, except 1.</p>	
	<p>Find y</p> 	
<p>The speed of a particle is $4.2 \times 10^5 \text{ m/s}$</p> <p>How far does it travel in a day?</p>	<p>Give your answer in kilometres and in standard form.</p> $d = s \times t$ $d = 4.2 \times 10^5 \times 8.64 \times 10^4$ $= 3.6288 \times 10^{10} \text{ m}$ $= 3.6288 \times 10^7 \text{ km}$	