

Name: _____

November 15th	5-a-day	Numeracy
<p>Write 3 metres in centimetres</p> <p style="text-align: center;">300 cm</p>	<p>Write 0.7 metres in centimetres</p> <p style="text-align: center;">70 cm</p>	
<p>What is the probability of selecting an A?</p> <p style="text-align: center;">$\frac{3}{5}$</p>	<p style="text-align: center;">C A A B A</p>	
<p>Ann is 20 years old.</p> <p>Ben is 7 years older than Ann. 27</p> <p>Colin is half of Ann's age. 10</p> <p>Dave is two years younger than Ben 25</p>	<p>What is the sum of Ann, Ben, Colin and Dave's ages.</p> <p style="text-align: center;">82</p>	
<p>$E = 2a + c$</p> <p>Find E if $a = 7$ and $c = 8$</p> <p style="text-align: center;">22</p>	<p>Find E if $a = 5.5$ and $c = 4.5$</p> <p style="text-align: center;">$E = 11 + 4.5$ $E = 15.5$</p>	
<p>Draw a rhombus on the isometric dots.</p>		

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November 15	5-a-day	Foundation
<p>Write 112 as a product of primes in index form.</p> $2^4 \times 7$		
<p>Solve $3y + 9 = 23 - 7y$</p> $10y + 9 = 23$ $10y = 14$ $y = 1.4$		
<p>Find the nth term of:</p> <p>8 14 20 26</p> $6n + 2$ 6n + 2	<p>Find the 300th term.</p> $6 \times 300 + 2$ 1802	
<p>Share \$600 in the ratio 5:7</p> $5 + 7 = 12$ $600 \div 12 = 50$ $50 \times 5 = \$250$ $50 \times 7 = \$350$		
<p>Hannah says all numbers ending in 3 are prime.</p> <p>Explain why she is wrong.</p> <p>33 ends in 3, but is <u>not</u> prime. ($3 \times 11 = 33$)</p>	<p>Hannah says if you halve a number ending in a 6, you would always get a number ending in 3.</p> <p>Explain why she is wrong.</p> $16 \div 2 = 8$ <p>Therefore she is wrong.</p>	

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November 15	5-a-day	Higher
$1\frac{4}{7} + 2\frac{3}{4}$	$\frac{11}{7} + \frac{11}{4} = \frac{44}{28} + \frac{77}{28} = \frac{121}{28}$ $4\frac{9}{28}$	
<p>Write 390000000 in standard form.</p> 3.9×10^8	<p>Write 3.1×10^{-5} as an ordinary number.</p> 0.000031	
<p>Simplify fully</p> $\frac{4x^2 - 25}{6x^2 - 11x - 10}$	$\frac{(x-5)(2x+5)}{(3x+2)(2x-5)}$ $= \frac{2x+5}{3x+2}$	
<p>Write 1.25252525... as a fraction.</p> $x = 1.252525 \dots$ $100x = 125.252525 \dots$	$100x = 125.2525 \dots$ $x = 1.2525 \dots$ <hr/> $99x = 124$ $x = \frac{124}{99}$	
<p>Martin invests £500 into a savings account that pays X% interest per annum. After 5 years, he has £750 in the account.</p> <p>Find X</p>	$500 \times y^5 = 750$ $y^5 = 1.5$ $y = 1.08447 \dots$ $x = 8.45\%$	