

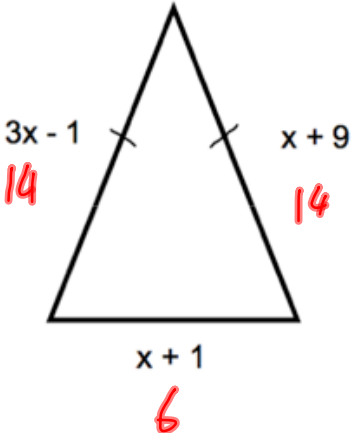


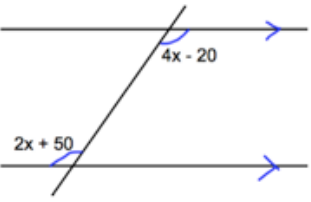
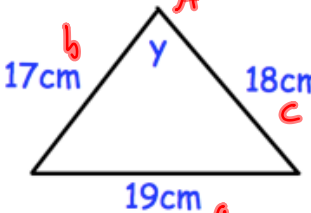
Name: _____

September 11th	5-a-day	Numeracy
$14 - \boxed{6} = 8$ $16 \times \boxed{3} = 48$		
<p>7 5 3 8</p> <p>Using all four discs</p>	<p>Write down the smallest possible number 3578</p> <p>Write down the largest possible number 8753</p>	
<p>Pattern 1 Pattern 2 Pattern 3</p> 	<p>Sketch Pattern 4.</p> 	
<p>List the first 5 square numbers.</p> <p>1 4 9 16 25</p>	<p>List the first 5 cube numbers.</p> <p>1 8 27 64 125</p>	
<p>Bottles of fizzy cola cost:</p> <p>50p each or £4 for a box of 10</p> <p>40p</p>	<p>Work out the cheapest price for 25 bottles of fizzy cola.</p> <p>$24 \times 2 = £8$ $50p \times 5 = £2.50$ £10.50</p>	

Name: _____

September 11	5-a-day	Foundation
<p>To feed 30 people, Jim makes</p> <p>20 chicken sandwiches 34 cheese sandwiches 50 ham sandwiches</p>	<p>How many of each would he need to feed 45 people?</p> <p>30 chicken 51 cheese 75 ham</p>	
<p>A bag of 20 apples has 3 bad apples.</p> <p>How many bad apples are expected out of a bag of 100 apples?</p>	<p>15</p>	
	<p>Explain why $3x - 1 = x + 9$</p> <p>As it is an isosceles triangle, the two labelled sides are of equal length.</p>	
	<p>Solve $3x - 1 = x + 9$</p> <p>$3x - 1 = 9$ $2x = 10$ $x = 5$</p>	
	<p>Find the perimeter</p> <p>34cm</p>	

Name: _____

September 11	5-a-day	Higher
<p>Expand and simplify</p> $4y(y + 3) - 2y(y - 5)$ $4y^2 + 12y - 2y^2 + 10y$	$2y^2 + 22y$	
	<p>Find the size of angle, $4x - 20$.</p> $4x - 20 = 2x + 50$ $2x = 70$ $x = 35$ 120°	
<p>A plant was 30cm tall when bought. This type of plant grows 22% each year.</p> <p>How many years will it take the plant to grow to at least 2 metres?</p>	30×1.22^n 10 years	
<p>Find the equation of the line perpendicular to $y = -2x + 3$ that passes through $(1, 10)$</p> $10 = \frac{1}{2}x + c$ $c = 9\frac{1}{2}$	$y = \frac{1}{2}x + c$ $y = \frac{1}{2}x + 9\frac{1}{2}$	
	<p>Find y.</p> $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$ $A = 65.68^\circ$	