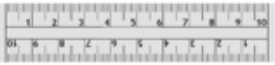
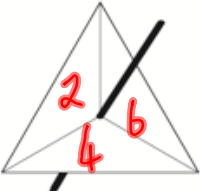

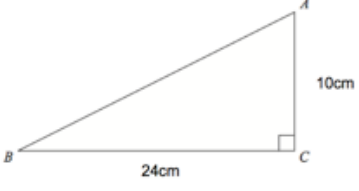
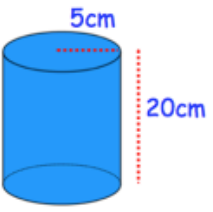



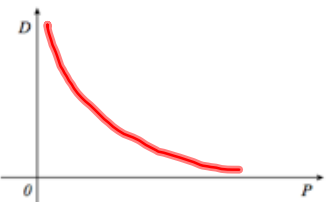
Name: \_\_\_\_\_

November 25th	5-a-day	Numeracy
Work out $7 \times 23$  $161$	Work out $1284 - 311$  $973$	
 Convert 8 centimetres into millimetres $80$	Convert 120 millimetres into centimetres  $12$	
<p>Menu</p> <p>Burger 90p Egg 70p Chips 80p Mash 65p Drink 55p</p>	Diane buys a portion of chips. She pays with 2p pieces. How many does she need? $80 \div 2 = 40$	
	This spinner has three sections. It is certain to land on an <b>even</b> number.  Label the spinner.	
 What percentage of this shape is <b>not</b> shaded?	$25\%$	

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

November 25	5-a-day	Foundation
<p>Factorise</p> $35y + 45$ $5(7y+9)$	<p>Expand and simplify</p> $(y + 4)(y - 3)$ $y^2 + y - 12$	
<p>k is odd.</p> $3k + 1$	<p>Tick the correct box</p> <p><input type="checkbox"/> odd      <input checked="" type="checkbox"/> even      <input type="checkbox"/> either</p>	
	<p>Find the length of AB</p> $x^2 = 10^2 + 24^2$ $x^2 = 676$ $x = 26\text{cm}$	
	<p>Calculate the volume of the cylinder.</p> $\pi \times 5^2 \times 20$ $= 500\pi\text{cm}^3$ $\approx 1570.8\text{cm}^3$	
	<p>Shown is a regular pentagon.</p> <p>What is the size of each exterior angle?</p> $360 \div 5 = 72^\circ$	

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

November 25	5-a-day	Higher																
<p>Work out</p> $4^0$ <p style="text-align: center; color: red; font-size: 2em;">1</p>	<p>Work out</p> $4^{-2}$ <p style="text-align: center; color: red; font-size: 2em;"><math>\frac{1}{4^2} = \frac{1}{16}</math></p>																	
<p>Ashley takes two cubes out of a bag, with replacement. There are 5 red, 3 blue and 2 green cubes.</p> <p>What is the probability he picks two cubes the same colour?</p> <p style="text-align: center; color: red; font-size: 1.5em;"><math>\frac{38}{100}</math> or <math>\frac{19}{50}</math></p>	$P(RR) = \frac{5}{10} \times \frac{5}{10} = \frac{25}{100}$ $P(BB) = \frac{3}{10} \times \frac{3}{10} = \frac{9}{100}$ $P(GG) = \frac{2}{10} \times \frac{2}{10} = \frac{4}{100}$																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Expression</th> <th style="padding: 5px;">Length</th> <th style="padding: 5px;">Area</th> <th style="padding: 5px;">Volume</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"><math>x + y + z</math></td> <td style="text-align: center; color: red; font-size: 1.5em;">✓</td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;"><math>xyz</math></td> <td></td> <td></td> <td style="text-align: center; color: red; font-size: 1.5em;">✓</td> </tr> <tr> <td style="padding: 5px;"><math>xy + yz + xz</math></td> <td></td> <td style="text-align: center; color: red; font-size: 1.5em;">✓</td> <td></td> </tr> </tbody> </table>	Expression	Length	Area	Volume	$x + y + z$	✓			$xyz$			✓	$xy + yz + xz$		✓			
Expression	Length	Area	Volume															
$x + y + z$	✓																	
$xyz$			✓															
$xy + yz + xz$		✓																
<p>D is inversely proportional to P.</p> <p>Sketch this graph.</p>																		
<p>Solve</p> $\frac{2x - 4}{5} + \frac{x + 11}{2} = 2$	$\frac{4x - 8}{10} + \frac{5x + 55}{10} = 2$ $\frac{9x + 47}{10} = 2$ $9x + 47 = 20$ $9x = -27$ $x = -3$																	