
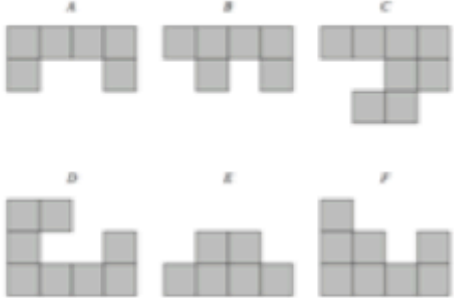


July 24th	5-a-day	Numeracy
<p>Draw a shape with one quarter shaded.</p> 		
<p>Simplify fully</p> $\frac{8}{12}$ $\frac{4}{6}$ $\frac{2}{3}$		
<p>15 26 35 37 40 54 60 72</p> <p>From the list write down: The number that is the product of 9 and 6.</p> 54	<p>A prime number</p> 37	
	<p>Which shapes fit together to make a rectangle?</p> <p>A 2 E</p> <p>Which shapes fit together to make a square?</p> <p>C 2 D</p>	
<p>Work out $13.6 - 4.78$</p> 8.82	$\begin{array}{r} 13.60 \\ - 4.78 \\ \hline 8.82 \end{array}$	

July 24

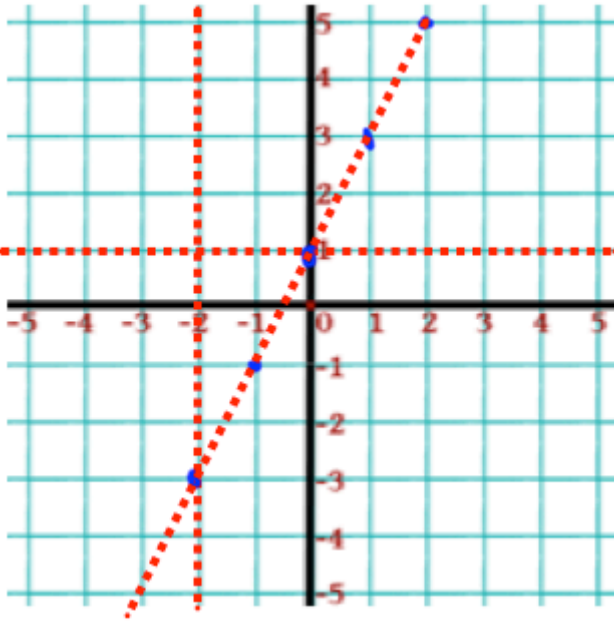
5-a-day

Foundation

$$v = u + 10t$$

Find V if $u = -4$ and $t = 2$

$$\begin{aligned} v &= -4 + 10 \times 2 \\ v &= -4 + 20 \\ v &= 16 \end{aligned}$$

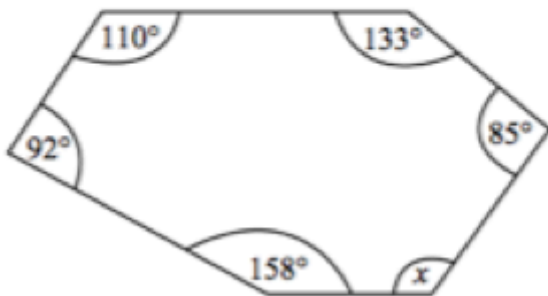


Draw $x = -2$

Draw $y = 1$

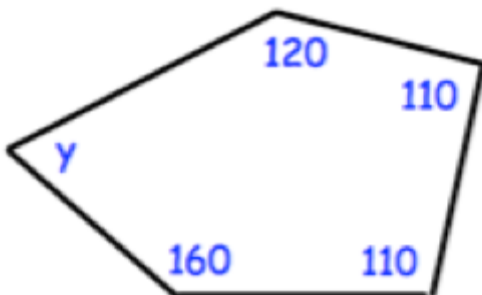
Complete the table and draw the line $y = 2x + 1$

x	-2	-1	0	1	2
y	-3	-1	1	3	5



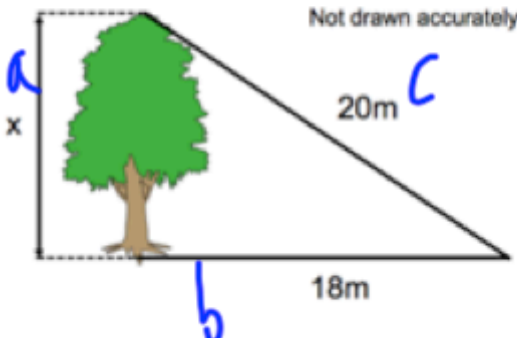
Find x

$$\begin{aligned} x &= 142^\circ \\ 720 - 578 &= 142^\circ \end{aligned}$$



Find y

$$\begin{aligned} y &= 40^\circ \\ 540 - 500 & \end{aligned}$$

July 24	5-a-day	Higher
<p>Factorise</p> <p>$y^2 + 8y$</p> <p>$y(y+8)$</p>		<p>Factorise</p> <p>$y^2 - 25$</p> <p>$(y-5)(y+5)$</p>
 <p>Not drawn accurately</p> <p>20m</p> <p>18m</p> <p>x</p> <p>b</p>	<p>How tall is the tree?</p> <p>$x^2 + 18^2 = 20^2$</p> <p>$x^2 = 20^2 - 18^2$</p> <p>$x = 8.72m$</p>	
<p>A is directly proportional to the square root of B.</p> <p>When $A = 50$, $B = 25$.</p> <p>Find A in terms of B.</p> <p>$A \propto \sqrt{B}$</p> <p>$A = k\sqrt{B}$</p> <p>$50 = k \times 5$</p>		<p>$k = 10$</p> <p><u><u>$A = 10\sqrt{B}$</u></u></p>
<p>A biased dice is rolled 3 times.</p> <p>The probability of a six is 0.8.</p> <p>What is the probability of 3 sixes?</p> <p>$0.8 \times 0.8 \times 0.8 = 0.512$</p>		<p>$1 - 0.008$</p> <p>$= 0.992$</p>
<p>What is the probability of at least 1 six?</p> <p>No sixes:</p> <p>$0.2 \times 0.2 \times 0.2 = 0.008$</p>		