

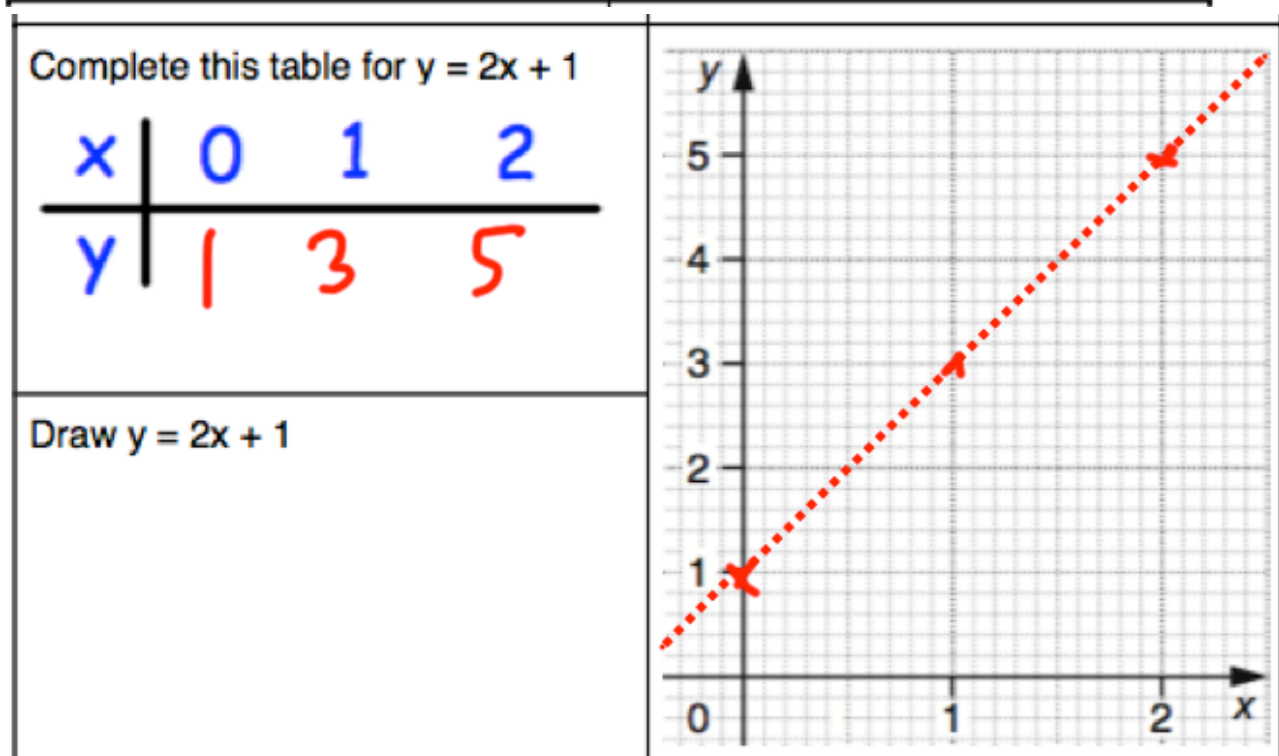


March 29th	5-a-day	Numeracy
	<p>Name this solid</p> <p><i>Cone</i></p>	
<p>Victor runs a half marathon.</p> <p>He started at 07:10</p> <p>He ran for 145 minutes.</p> <p>What time did he finish?</p>	<p><i>09:10</i></p> <p><i>09:35</i></p>	
 <p><i>16:40</i></p> <p><i>11:40</i></p>	<p>The time in London is 4:40pm</p> <p>The time in New York is 5 hours behind the time in London</p> <p>Show this time on the clock.</p>	
<p>Simplify</p> <p>$w \times w \times w$</p> <p><i>w^3</i></p>	<p>Simplify</p> <p>$w + w + w$</p> <p><i>$3w$</i></p>	
<p>$C = 2a + 10$</p> <p>Work out C if $a = 6$</p> <p><i>$C = 2 \times 6 + 10$</i></p> <p><i>$C = 12 + 10 = 22$</i></p>	<p>$C = 2a + 10$</p> <p>Work out a if $C = 32$</p> <p><i>$32 = 2a + 10$</i></p> <p><i>$22 = 2a$</i></p> <p><i>$a = 11$</i></p>	

March 29th	5-a-day	Foundation
<p>What is the remainder when 365 is divided by 7?</p> $7 \overline{) 365} \begin{array}{r} 52 \\ \underline{365} \\ 0 \end{array}$		1
<p>Martin goes to Bristol every 4 days Ollie goes every 5 days. Seb goes every 12 days.</p> <p>If they all went to Bristol today, how many days later will they all go on the same day?</p>		60 days
<p>$y = 2x + a$</p> <p>Make x the subject</p>		$y - a = 2x$ $\frac{y - a}{2} = x$



March 29th

5-a-day

Higher

Simplify

$$2(3x + 4) - 3(4x - 5)$$

$$6x + 8 - 12x + 15$$

$$-6x + 23$$

$$23 - 6x$$

The force, F , between two magnets is inversely proportional to the square of the distance, d , between them.

When $F = 4$, $d = 3$.

Express F in terms of d .

$$F \propto \frac{1}{d^2}$$

$$F = \frac{k}{d^2}$$

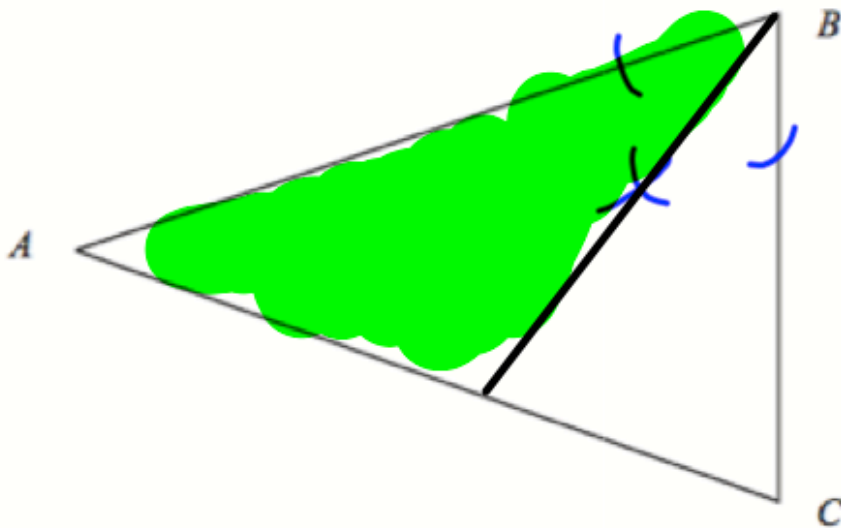
$$4 = \frac{k}{3^2}$$

$$4 = \frac{k}{9}$$

$$k = 36$$

$$F = \frac{36}{d^2}$$

ABC is a garden. A tree is planted closer to wall AB than wall BC. Show the possible locations the tree can be planted.



Two spheres have volumes in the ratio 8:125

lengths 2:5

The radius of the larger sphere is 30cm.

What is the radius of the smaller sphere?

$$30 \div 5 = 6$$

$$6 \times 2 = 12 \text{ cm}$$