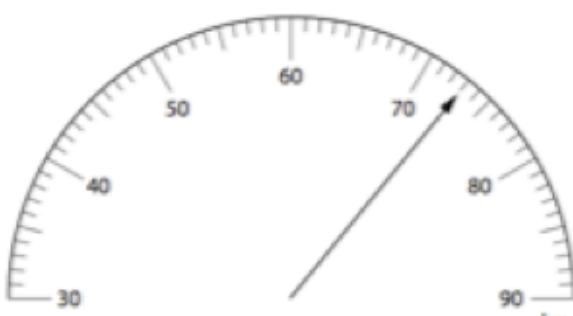
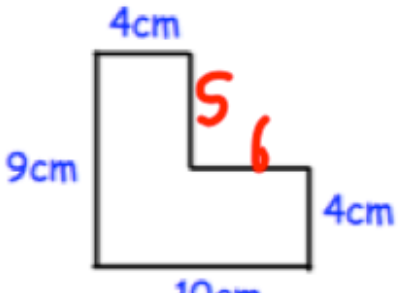


May 30th	5-a-day	Numeracy
<p>Write the value of the 5 in the number</p> <p>756</p> <p style="color: red; font-size: 2em;">50</p> <p style="color: red; font-size: 2em;">fifty</p>		
<p>Oranges cost x pence each.</p> <p>Write an expression for the total cost of 5 oranges.</p> <p style="color: red; font-size: 2em;">$5x$</p>	<p>Bananas cost y pence each.</p> <p>Write an expression for the total cost of one orange and one banana.</p> <p style="color: red; font-size: 2em;">$x+y$</p>	
<p>Ben buys a packet of 60 balloons.</p> <p>25% of them are red.</p> <p>Work out 25% of 60</p> <p style="color: red; font-size: 2em;">15</p>	<p>$\frac{3}{5}$ of them are yellow.</p> <p>Work out $\frac{3}{5}$ of 60.</p> <p style="color: red; font-size: 2em;">36</p>	
	<p>What weight is shown on the scales?</p> <p style="color: red; font-size: 2em;">73 kg</p>	
	<p>Calculate the perimeter</p> <p style="color: red; font-size: 2em;">$4+5+6+4+10+9$</p> <p style="color: red; font-size: 2em;">$= 38\text{cm}$</p>	

May 30th

5-a-day

Foundation

$$\frac{1}{3} + \frac{2}{7} = \frac{7}{21} + \frac{6}{21} = \frac{13}{21}$$

$$\frac{4}{7} - \frac{1}{3} = \frac{12}{21} - \frac{7}{21} = \frac{5}{21}$$

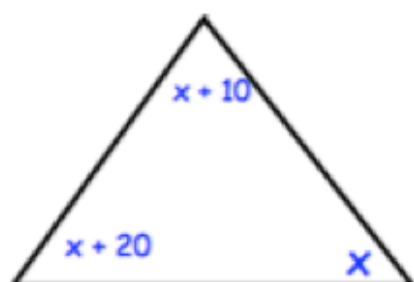
A health club wants to survey people about their new gym equipment.

The owner decides to ask people walking past the entrance to the health club.

Is this going to give reliable results?

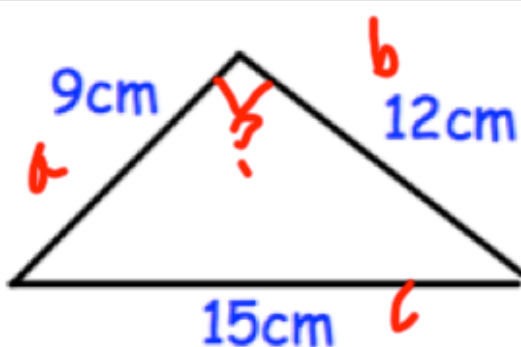
Give a reason for your answer

No, as they are walking past the entrance, they may not actually go to the gym to use the equipment.



Find the value of x

$$3x + 30 = 180$$



Show this is a right angled triangle

$$\begin{aligned} a^2 + b^2 &= c^2 \\ 9^2 + 12^2 &= 15^2 \\ 81 + 144 &= 225 \\ 225 &= 225 \quad \text{yes} \end{aligned}$$

Expand and simplify

$$(x+y)^2 = (x+y)(x+y) = x^2 + xy + xy + y^2$$

$$x^2 + 2xy + y^2$$

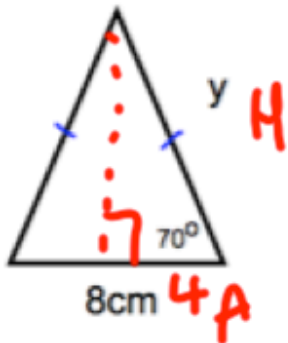
May 30

5-a-day

Higher

Simplify $4\sqrt{3} \times 2\sqrt{5}$

$$8\sqrt{15}$$



Calculate y

$$\frac{4}{\cos 70} = 11.695 \text{ cm}$$

Solve

$$x^2 - 13x - 30 = 0$$

$$(x - 15)(x + 2) = 0$$

$$x = 15 \text{ or } x = -2$$

Write 0.125252525... as a fraction

$$x = 0.1252525\dots$$

$$10x = 1.2525\dots$$

$$1000x = 125.2525\dots$$

$$990x = 124 \quad x = \frac{124}{990}$$

Sketch $y = f(x) + 1$

$$x = \frac{62}{495}$$

