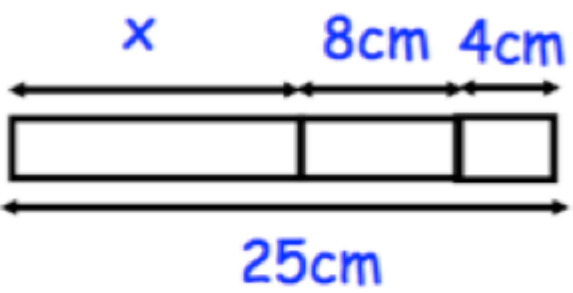


January 14th	5-a-day	Numeracy
	<p>Find x</p> <p style="color: red; font-size: 2em;">13cm</p>	
<p>6 8 2 8 1 11</p> <p>(a) What is the median?</p> <p style="color: red; font-size: 1.5em;">6 8 8 8 2 1 11 7</p> <p>(b) What is the mode?</p> <p style="color: red; font-size: 2em; margin-left: 100px;">8</p>	<p>(c) What is the range?</p> <p style="color: red; font-size: 2em; margin-left: 100px;">$11 - 1 = 10$</p>	
<p>Work out 50% of £60</p> <p style="color: red; font-size: 2em; margin-left: 50px;">£30</p>	<p>Work out 25% of 32cm</p> <p style="color: red; font-size: 2em; margin-left: 50px;">8cm</p>	
<p>124 120 116 112 108</p> <p>Write down the next two terms</p>	<p>27 cannot be a term in this sequence.</p> <p>Why? 27 is odd</p>	
<p>Simplify $4x + 3y - 2x + 5y$</p> <p style="color: red; font-size: 2em; margin-left: 50px;">$2x + 8y$</p>		

Factorise $15y + 20$

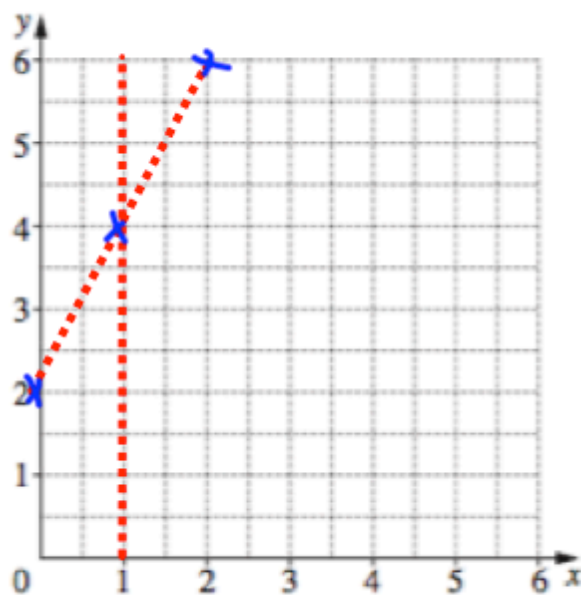
$$5(3y + 4)$$

Solve $5x + 1 = 3x + 19$

$$\begin{aligned} 2x + 1 &= 19 \\ 2x &= 18 \\ x &= 9 \end{aligned}$$

Between which two consecutive integers does $\sqrt{87}$ lie?

9 and 10



Draw $x = 1$

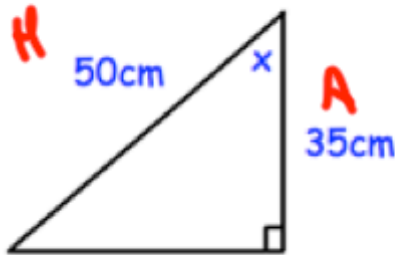
Draw $y = 2x + 2$

$$\begin{array}{r} x \quad | \quad 0 \quad 1 \quad 2 \quad 3 \\ y \quad | \quad 2 \quad 4 \quad 6 \quad 8 \end{array}$$

$$4\frac{1}{4} + 2\frac{3}{7}$$

$$\frac{1}{4} + \frac{3}{7} = \frac{7}{28} + \frac{12}{28} = \frac{19}{28}$$

$$6\frac{19}{28}$$



Calculate angle x

Make w the subject of

$$a + 3w^2 = s$$

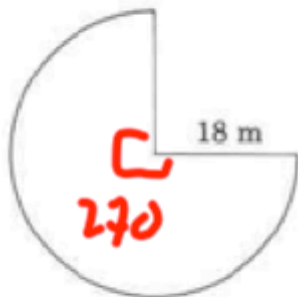
$$\cos x = \frac{35}{50}$$

$$45.57^\circ$$

$$3w^2 = s - a$$

$$w^2 = \frac{s - a}{3}$$

$$w = \sqrt{\frac{s - a}{3}}$$



Calculate the length of the arc.

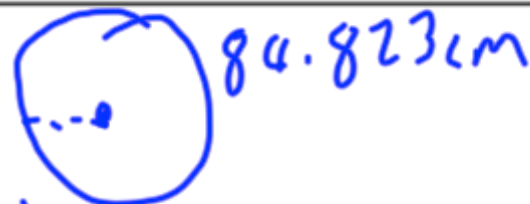
$$\frac{270}{360} \times \pi \times 36$$

$$27\pi \text{ cm}$$

$$\approx 84.823 \text{ cm}$$

A cone is formed from the shape above.

Work out the length of the radius.



$$d = 27$$

$$r = 13.5 \text{ cm}$$