

March 1st	5-a-day	Numeracy
Work out 125.6×10 $\begin{array}{r} 1256 \\ \hline \hline \end{array}$		
A pen costs £2.50 How much will 7 pens cost?	$\begin{array}{r} 2.50 \\ \times \quad 7 \\ \hline 17.50 \\ \hline \hline \end{array}$	
Find the missing number $\frac{1}{2} = \frac{[6]}{12}$ $\times 6$		
Find 20% of €35. $10\% = \text{€}3.50$ $20\% = \text{€}7.00$	Find $\frac{3}{8}$ of 240 metres $240 \div 8 = 30$ $30 \times 3 = 90\text{m}$	
Solve $5x + 1 = 16$ $-1 \quad -1$ $5x = 15$ $\div 5 \quad \div 5$ $x = 3$		

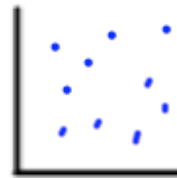
March 1st

5-a-day

Foundation



Plot some points that would have a positive correlation



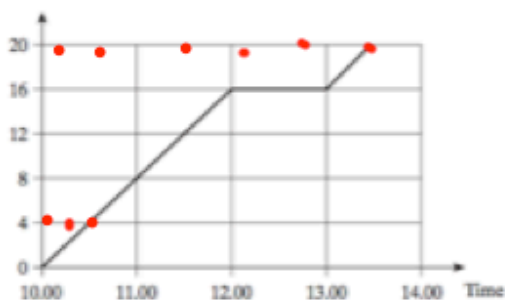
Plot some points that would have no correlation

A circular lawn has radius of 3.5m

Calculate the area of the lawn.

$$A = \pi \times r^2$$

$$\pi \times 3.5^2 \\ = 38.5\text{m}^2$$



Thomas cycles from Randalstown to Glengormley. The distances are in miles

How far is Thomas from Randalstown at 10:30? *4 miles*

What happens from 12:00 to 13:00

He rests

How does Thomas travel in total?

20 miles

Jill buys $1\frac{1}{4}$ kg of potatoes, $\frac{1}{2}$ kg of peas and $2\frac{3}{4}$ kg of carrots.

What is the total weight of vegetables bought? $1\frac{1}{4} + \frac{1}{2}$
 $1\frac{1}{4} + \frac{2}{4} = 1\frac{3}{4}$

$$1\frac{3}{4} + 2\frac{3}{4} \\ = \frac{7}{4} + \frac{11}{4} = \frac{18}{4} \\ = 4\frac{2}{4} = 4\frac{1}{2} \text{ kg}$$

March 1st

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Higher

Solve

$$\frac{21 - 2x}{3} = 5$$

x3 x3

$$21 - 2x = 15$$

$$-21 \quad -21$$

$$-2x = -6$$

$$2x = 6$$

$$x = 3$$

W is directly proportional to A squared.

When W = 50, A = 5.

Write an equation linking W and A

$$W \propto A^2$$

$$W = kA^2$$

$$50 = k \times 5^2$$

$$50 = k \times 25 \quad k = 2$$

$$W = 2A^2$$

Work out the value of W when A = 3

$$W = 2 \times 3^2$$

$$W = 2 \times 9$$

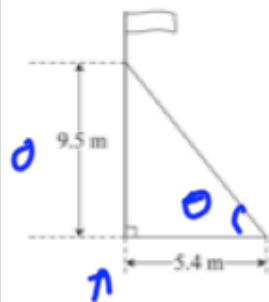
$$W = 18$$

Work out the value of A when W = 800

$$800 = 2A^2$$

$$400 = A^2$$

$$A = 20$$

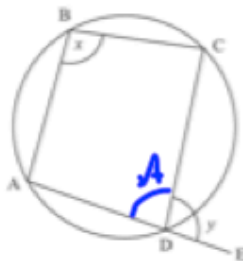


Calculate the angle the wire makes with the ground

$$\tan \theta = \frac{9.5}{5.4}$$

$$\tan \theta = 1.7592592 \dots$$

$$\theta = 60.4^\circ$$



Prove $x = y$ Since cyclic quad

$$x + A = 180$$

$$A = 180 - x$$

since straight line

$$A + y = 180$$

$$180 - x + y = 180$$

$$-x + y = 0$$

$$x = y$$