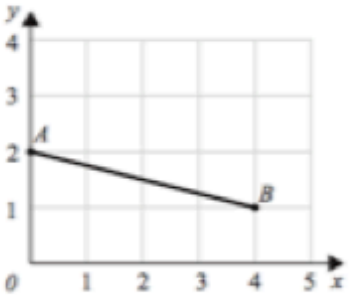
January 5th	5-a-day	Numeracy
Write 3 million in figures		3,000,000
Write 0.25 as a fraction $\frac{1}{4}$		
		What is the coordinate of A? (0, 2) What is the coordinate of B? (4, 1)
Arrange in order, from smallest to largest 0.12 0.2 0.111 0.21		0.111 0.12 0.2 0.21
If £1 is $1.50 Change £4 into dollars. 4 x 1.5 = $6 Change £100 into dollars. 100 x 1.5 = $150		Change $4.50 into pounds. 4.5 ÷ 1.5 = £3 Change £30 into pounds. 30 ÷ 1.5 = £20

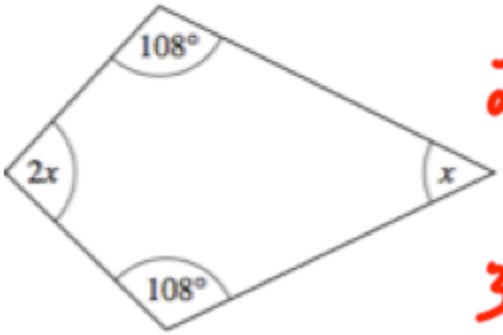
January 5th | **5-a-day** | **Foundation**

Expand and simplify

$5(x + 3) + 2(3x + 1)$

$5x + 15 + 6x + 2$

$11x + 17$



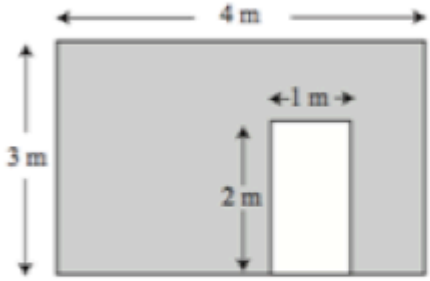
Calculate x

$2x + 108 + x + 108 = 360$

$3x + 216 = 360$

$3x = 144$ $x = 48°$

Calculate the shaded area



$12 - 2 = 10\ m^2$

Cost, (£C)	Frequency	mid point	fx
$0 < C \leqslant 50$	4	25	100
$50 < C \leqslant 100$	8	75	600
$100 < C \leqslant 150$	7	125	875
$150 < C \leqslant 200$	10	175	1750
$200 < C \leqslant 250$	11	225	2475
	40		+

Calculate an estimate for the mean for the table above.

$5800 \div 40 = 145$

January 5	5-a-day	Higher

There are 20 students in class 1.
There are 10 students in class 2.

Both classes sit the same test.

The mean mark in class 1 is 64%.
The mean mark in class 2 is 80%

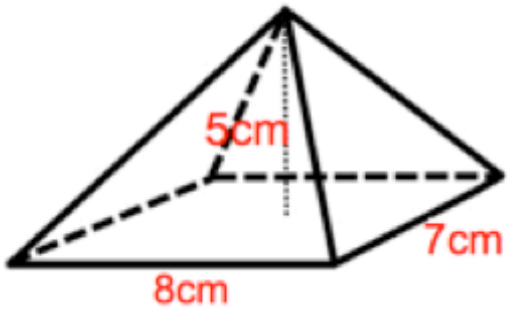
Work out the overall mean for both classes.

$20 \times 64 = 1280$
$10 \times 80 = 800$
$2080 \div 30 = 69.3\%$

Expand and simplify

$(3y - 2)(y + 3)$

$3y^2 + 7y - 6$



Calculate the volume of the pyramid

$\frac{1}{3}(8 \times 7) \times 5$

$93.\dot{3}\text{cm}^3$

Solve the simultaneous equations

$y = x^2 - 1$

$x = 5 - y$

$x = 5 - 8$ $x = 5 - 3$

$x = -3$ or $x = 2$

$y = 8, x = -3$

$y = 3, x = 2$

$y = (5 - y)^2 - 1$

$y = 25 - 10y + y^2 - 1$

$y = 24 - 10y + y^2$

$y^2 - 11y + 24 = 0$

$(y - 8)(y - 3) = 0$

$y = 8$ or $y = 3$