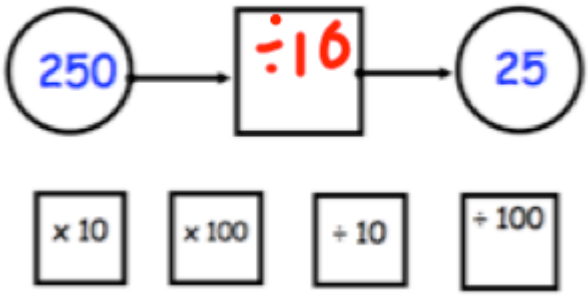
January 4th	5-a-day	Numeracy
Work out 93 subtract 35		8 1 9 3 - 3 5 5 8
		
Work out 8 squared. 64		
Work out 1.8 add 4.3 4.3 + 1.8 6.1		6.1
 Type of angle: obtuse		 Type of angle: reflex

January 4th	5-a-day	Foundation

Expand and simplify

$4(x+5)+3(x-7)$

$4x+20+3x-21$

$7x-1$

Expand and simplify

$(x+3)(x+5)$

$x^2+8x+15$

Share £1200 in the ration 2:3

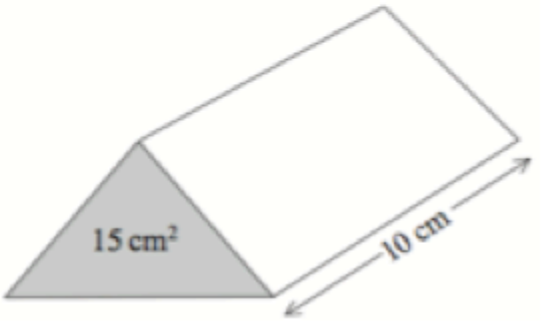
$2+3=5$

$1200 \div 5$

$5\overline{)1200}$ 240

$240 \times 2 = 480$

$240 \times 3 = 720$



Calculate the volume of this triangular prism

$15 \times 10 = 150 cm^3$

Rearrange $y=\frac{1}{2}x+1$ to make x the subject.

$y-1=\frac{1}{2}x$

$2y-2=x$

Find the highest common factor of 30 and 18

6

30: 1 2 3 5 6 10 15 30

18: 1 2 3 6 9 18

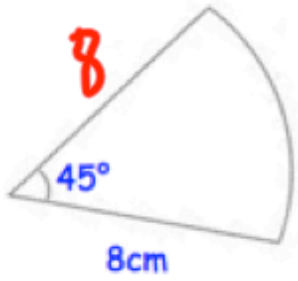
January 4	5-a-day	Higher

Solve $3x^2 = 192$

$x^2 = 64$

$x = -8$ or $x = 8$

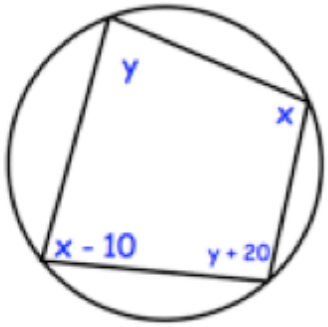
Find the perimeter of the sector.



$\frac{45}{360} \times \pi \times 16 = 6.283\ldots$ (or 2π)

$16 + 6.283\ldots = 22.28\text{cm}$

or $2\pi + 16$



$x + x - 10 = 180$

$2x - 10 = 180$

$2x = 190$

$x = 95°$

or

$y + y + 20 = 180$

$2y + 20 = 180$

$2y = 160$

$y = 80$

Solve these simultaneous equations

$3x - 4y = 18$ ×5

$2x - 5y = 19$ ×4

$15x - 20y = 90$

$8x - 20y = 72$ } subtract

$7x = 14$ $x = 2$

$6 - 4y = 18$

$-4y = 12$

$y = -3$

$4 - -15 = 19$ ✓

w is inversely proportional to c squared.

When w = 100, c = 2.

Find w when c = 4.

$w \propto \frac{1}{c^2}$ $w = \frac{k}{c^2}$

$100 = \frac{k}{2^2}$

$k = 400$

$w = \frac{400}{c^2}$

$w = \frac{400}{4^2}$

$w = 25$