March 4th **5-a-day** **Numeracy**

65	34	12	61	46
18	56	80	25	63

From the numbers in the grid.
Write down:

a) Two numbers with a total of 80

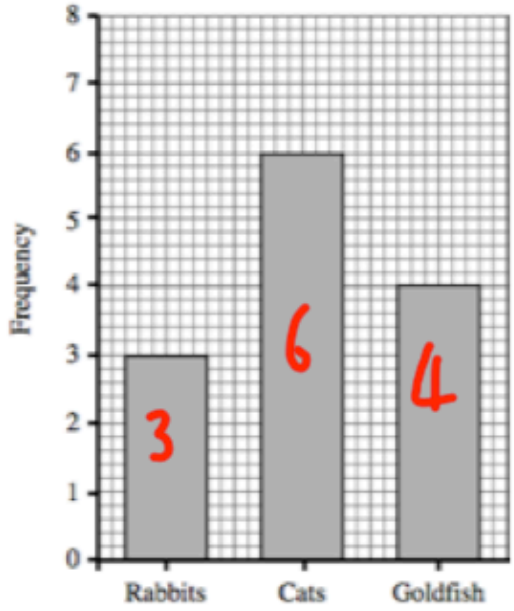
34 & 46

b) Two numbers with a difference of 40

65 & 25

c) Two factors of 36

18 & 12



How many rabbits were there?

3

How many more cats than goldfish were there?

2

How many pets in total?

13

Work out

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

$\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$

$1\frac{1}{6}$

March 4th	5-a-day	Foundation
When x = 5 and y = - 7 Find the value of $\frac{y^2 - 4}{9}$ $\frac{(-7)^2 - 4}{9}$	$\frac{49 - 4}{9} = \frac{45}{9} = 5$	
 Draw a chord	 Draw a sector	
There are 100 cars in a car park. 10 of the cars are blue. Write the relative frequency of a blue car $\frac{10}{100} = \frac{1}{10}$	The relative frequency of a silver car is 0.4. How many silver cars are there? $100 \times 0.4 = 40$	
Work out an estimate for: $\frac{49.1 \times 2.08}{3.98}$	$\frac{50 \times 2}{4} = \frac{100}{4}$ $= 25$	
Expand and simplify 4(x + 5) + 2(x + 7) $4x + 20 + 2x + 14$ $6x + 34$	Factorise 9a - 12 $3(3a - 4)$	

March 4th	5-a-day	Higher

Work out

$8 \times 10^4 \times 3 \times 10^3$

give your answer in standard form

24×10^7

2.4×10^8

Simplify

$(5y^5)^2$ $25y^{10}$

Solve

$$4x - 2y = 19$$

$$2x - 2y = 9$$

subtract

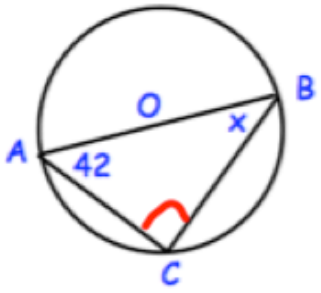
$2x = 10$

$x = 5$

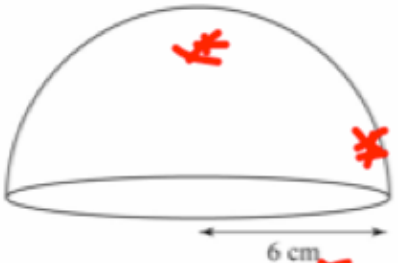
$2(5) - 2y = 9$

$10 - 2y = 9$ $2y = 1$ $y = 0.5$

Find the size of angle x



48°



Calculate the surface area of this hemisphere

SA sphere $= 4\pi r^2$

SA hemi $(4 \times \pi \times 6^2) \div 2 = 226.19\ldots$

bottom circle $\pi \times 6^2 = 113.097\ldots$

Answer $= 339.3\ cm^2$