March 24th	5-a-day	Numeracy
A number is multiplied by 10, and then 4 is added to get 35. What was the number?	$35 - 4 = 31$ $31 \div 10 = 3.1$	
Mia asks her aunt, Gina, how old she is. Gina replies that if you double her age, add 7 and divide by 3, you get 21. How old is Gina?	$21 \times 3 = 63$ $63 - 7 = 56$ $56 \div 2 = 28$	
If 2nd March is a Monday What day of the week will be 1st April? Wednesday	What will be the date of the first Saturday in April? 4th April	
Find 5% of 200kg 10% = 20kg 5% = 10kg	Find 20% of 80m 10% = 8m 20% = 16m	
Find 25% of £60 $60 \div 4 = £15$	Find 2% of 3500m 1% = 35 2% = 70	

March 24th	5-a-day	Foundation

Factorise $7x + 21$

$7(x+3)$

Expand and simplify

$6(m + 2) + 4(2m - 1)$

$6m+12+8m-4$

$14m+8$

40 people take a test

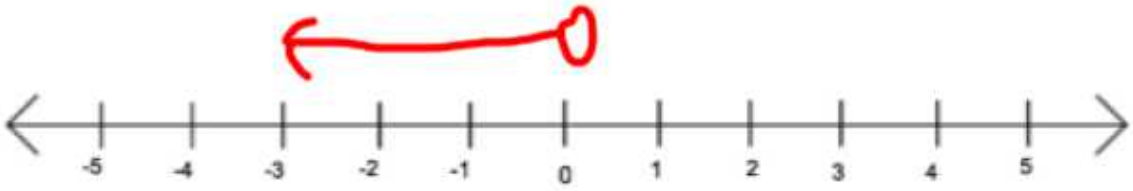
	Pass	Fail
Male	10	13
Female	6	11

$=17$

A person is chosen at random, what is the probability they are female?

$\frac{17}{40}$

Draw $x < 0$ on the number line



Age	Frequency	f x
10	3	30
11	5	55
12	2	24

Write down the mode age

11

Calculate the mean

$30 + 55 + 24 = 109$

$109 \div 10 = 10.9$

March 24th	5-a-day	Higher

Expand and simplify

$(x-6)(x+4)$

$x^2 - 2x - 24$

Simplify

$\frac{3q^4 \times 2q^5}{q^3}$

$\frac{6q^9}{q^3} =$

$6q^6$

The population of an island is 2.5×10^4

5.2×10^3 people live in the largest city on the island.

What percentage of the population live in the largest city?

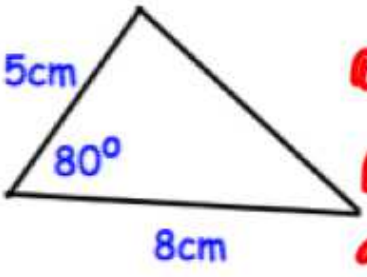
$\frac{5.2 \times 10^3}{2.5 \times 10^4} \times 100$

$= 20.8\%$

Calculate the area of this sector.

$\frac{40}{360} \times \pi \times 9^2$

$= 28.27 cm^2$



Length of the missing side

$a^2 = b^2 + c^2 - 2bc\cos A$

$a^2 = 5^2 + 8^2 - 2(5)(8)\cos 80$

$a^2 = 75.1\ldots \quad a = 8.666cm$