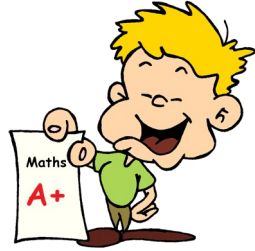**Test on Numbers and Algebra**
Seconde . November 2013.

You have now 10 minutes to prepare your oral.
Start your recording by giving your name and the number of your paper.

Alloted time : 5 minutes
Calculators allowed

Paper number 1

1/ Read out loud :

$\dfrac{2}{3}$	13.28	πR^2	$\sqrt{5}$
$x=-\dfrac{1}{2}$	$x \geqslant 9$	$(2+x^2)(5-x)$	$y<953$

2/ Susan thinks of a number, divides it by 2 and adds one half to her answer. The result is $\dfrac{3}{4}$.
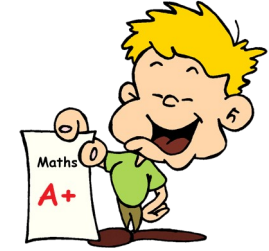
Find that number.

3/ The length of a rectangular map is 15 inches and the perimeter is 50 inches. Find the width.

Paper number 2

1/ Read out loud :

$\sqrt{50}$	$\dfrac{9}{2}$	$2\pi R$	$(x-y)(x+y)$
$x \leqslant 2.1$	$x \neq -\dfrac{6}{5}$	$a>0$	$x^2 \approx 213$

2/ Sarah thinks of a number, multiplies it by 3 and subtracts 5 from her answer. The result is 7.3.
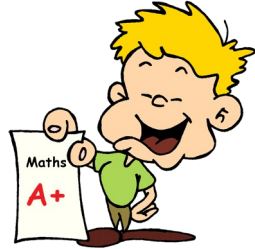
Find that number

3/ On an algebra test, the highest grade was 42 points higher than the lowest grade. The sum of the two grades was 138. Find the lowest grade.

You have now 10 minutes to prepare your oral.
Start your recording by giving your name and the number of your paper.

Alloted time : 5 minutes
Calculators allowed

Paper number 3

1/ Read out loud :

$\frac{4}{3}\pi R^3$	0.001	987,543	$\sqrt{3}$
$x=-76$	$x\leqslant-4$	$y\neq\dfrac{4}{5}$	$3(x^2+2)$

2/ John thinks of a number, multiplies it by 3 and adds 2 to his answer. The result is 11
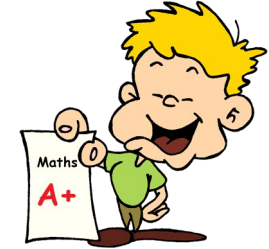
Find that number

3/ Emma and her twin brother will have a total age of 42 in 5 year's time. How old are they at the moment ?

You have now 10 minutes to prepare your oral.
Start your recording by giving your name and the number of your paper.

Alloted time : 5 minutes
Calculators allowed

Paper number 4

1/ Read out loud :

$2\pi R$	$\dfrac{a^2}{3}$	$3-\sqrt{7}$	$\pi\approx3.14$
$\dfrac{7}{13}$	$x\geqslant100$	5^4	$(2x+1)(y-5)$

2/ Paul thinks of a number, divides it by 3 and subtracts 5 from his answer. The result is 14.

Find that number.

3/ A farmer doubles the amount of cows he has and then buys a further three cows. He now has 29. How many cows did he originally have ?