

## POW – Problem of the week

Week 22

### Problem of the week for class 1-5

*The secret number*



The double of the secret number is less than 100

Half the number is more than 10

The secret number is what the ancient greek called a *perfect number*; the sum of its divisors

(6 is a perfect number as  $1+2+3=6$ )

Can you find the secret number ?



### Problem of the week for class 6-10

*Four cogs in a row*



In the picture below you see four cogs.

The numbers written under are the number of teeth of each cog (don't try to count them, use your imagination!).

If you turn the first cog (52 teeth) five times clockwise, in which direction will the other cogs turn, and in which direction will their arrow point ?

