

# PROBLEMS TO PONDER

#1

1.



A frog is at the bottom of a 78 meter well. Each day he leaps 4 meters up the well. At night, while he is asleep, he slips 2 meters backwards.

How many days does it take him to escape from the well?

2.



James and Jonathan are liars, who lie on specific days. James lies on Fridays, Saturdays and Sundays, but he is honest on all other days. Jonathan lies on Tuesdays, Wednesdays and Thursdays, but he tells the truth on all other days.

On what day of the week would they both say "Tomorrow, I will lie." ?

3.



You have 16 eggs, one of them is lighter than the rest.

Using an equal arm balance, what is the minimum number of balancings you need to determine the light egg?

4.



Fig. Shows 3 Glasses filled with water and 3 empty Glasses (Above in Fig) .

Tell the minimum number of Glasses you have to Move to make the arrangement (Below in Fig).

## Answers:

- 1) 38
- 2) Thurs.
- 3) 3 steps
- 4) 1 glass