

**CLASS VII**  
**MATHEMATICS**

**PROJECT:**

“Properties of Integers”.

**ASSIGNMENT**

A water tank has steps inside it. A monkey is sitting on the topmost step (i.e., the first step). The water level is at the ninth step.

(i) He jumps 3 steps down and then jumps back 2 steps up.

In how many jumps will he reach the water level?

(ii) After drinking water, he wants to go back. For this, he

jumps 4 steps up and then jumps back 2 steps down

in every move. In how many jumps will he reach back

the top step?

(iii) If the number of steps moved down is represented by

negative integers and the number of steps moved up by

positive integers, represent his moves in part (i) and (ii)

by completing the following; (a)  $-3 + 2 - \dots = -8$

(b)  $4 - 2 + \dots = 8$ . In (a) the sum  $(-8)$  represents going

down by eight steps. So, what will the sum 8 in (b)

represent?