

## Watering Hole!

Can you use your problem solving skills to help Sandhya solve the problem?

Sandhya has noticed that the water level of the borehole at their school changes from day to day.

Sandhya often walks to a well near her school to get water. However, Sandhya is worried because she sometimes doesn't have time to walk to the well, and has to use the school borehole in which the water is yellow and hazy.

### Task

She knows that the depth of the borehole is **16 metres** deep.

She decides to record the water level over a few days. She uses a bucket to float on top of the water so that she can see the water level changing.

Her results are shown below:

Time of Day	Day 1	Day 2	Day 3	Day 4
<b>Morning</b>	$\frac{1}{4}$ way up	$\frac{1}{2}$ way up	$\frac{3}{4}$ way up	Right to the top
<b>Evening</b>	Down to the bottom	Down to the bottom	Down to the bottom	Stays at the top

**How many metres did the water rise and fall altogether?**

