## Worked Example 9A

6 sensors are installed at an equal distance apart along a walkway.
The distance between the 1st and the 3rd sensor is 6 m .
a) How far apart is every 2 sensors?
b) How far away is the 1 st sensor from the last sensor?


We draw a diagram to visualise or picture the problem. *The number of sensors is 1 more than the number of gaps.

a) Number of gaps $=3-1=2$
$6 \mathrm{~m} \div 2=3 \mathrm{~m}$
Every 2 sensors is 3 m apart.
b) Number of gaps $=6-1=5$
$5 \times 3 \mathrm{~m}=15 \mathrm{~m}$
The 1st sensor is 15 m away from the last sensor.

