## RATIO

## APPLICATIONS ROBOT MAZE

The maze for a robot test is shown below. The diagram has a Scale Factor of 1:250 which means that the real maze is 250 times larger than this diagram.

Use a ruler to measure the lengths of each leg of the robot's journey in millimetres. Complete the table below to find the total real journey length.


| LEG | DIAGRAM DISTANCE $(\mathrm{mm})$ | REAL DISTANCE $(\mathrm{mm})$ |
| :--- | :--- | :--- |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| TOTAL DISTANCE IN METRES $=$ |  |  |

## ANSWER

Total distance $=46.5 \mathrm{~m}$ approx.

