TG 3 The following table shows the velocity
ADI (in metres per second) of a moving object evaluated at 10 -second intervals.

| Time | 30 | 40 | 50 | 60 | 70 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Velocity | 0 | 4.6 | 5.7 | 8 | 9.9 |

Use the trapezoidal rule to obtain an estimate of the distance travelled by the object over the time interval $30 \leq t \leq 70$.

Distance $=\frac{10}{2}[0+9.9+2(4.6+5.7+8 \times 10)]$

$$
=232.5
$$

$\therefore$ the object has travelled approximately 232.5 m .

* These solutions have been provided by projectmaths and are not supplied or endorsed by NESA.

