

A police officer was using a drone to scan an area for a wanted person. How far did this drone travel in total?


a) Estimate the distance travelled in the first 15 seconds.


Estimate the distance travelled between 30 and 60 seconds.
b) Overestimate

Underestimate


## Timester Challenge

Area Underneath a Graph Answers


A police officer was using a drone to scan an area for a wanted person. How far did this drone travel in total? Area $A=\frac{10 \times 20}{2}=100$ metres
Area $B=40 \times 20=800$ metres
Area $C=\frac{20 \times 20}{2}=200$ metres

Total Distance
$100+800+200$
$=1,100 \mathrm{~m}$ or 1.1 km
Bronze

a) Estimate the distance travelled in the first 15 seconds.

$$
\text { Area } \mathrm{A}=\frac{15 \times 46}{2}=345 \text { metres }
$$

b) Overestimate

Underestimate


## Silver



Estimate the distance travelled between 30 and 60
seconds. $=\frac{200+1000}{2} \times 10=6,000$ metres
Area $B=\frac{1000+3000}{2} \times 10=20,000$ metres
Area C $=\frac{3000+5500}{2} \times 10=42,500$ metres
Total Distance $6000+20000+42500$


