SQ ME The angle of depression from a window to a 9 car on the ground is $40^{\circ}$.

The car is 50 metres from the base of the building.
How high above the ground is the window, correct to the nearest metre?
A. 32 m
B. 38 m
C. 42 m
D. 48 m


C
Using alternate angles and parallel lines, angle is $40^{\circ}$.

$$
\frac{x}{50}=\sin 40^{\circ}
$$



$$
x=50 \tan 40^{\circ}
$$

50
= 41.95498156...
$=42$ (nearest whole) $\quad \therefore$ the window is 42 metres from the ground.

[^0]
[^0]:    * These solutions have been provided by projectmaths and are not supplied or endorsed by NESA.

