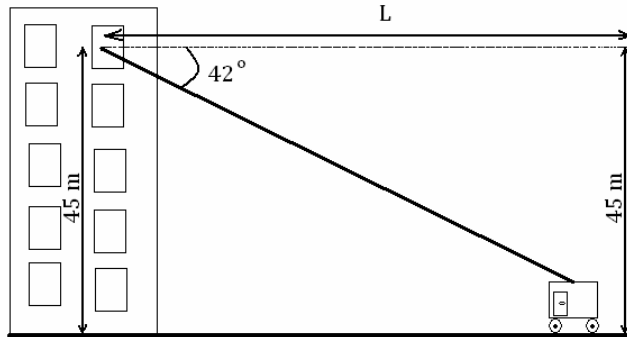## QUESTION

From a window of a building 45 metre above ground level, the angle of depression of a car on level ground is 42 degrees. how far is the car from the building?

SOLUTION

From the right triangle on the picture above, it can be seen that

$$tg\,42 = \frac{45}{L}$$

$Hence$

$$L = 45 \cdot tg\,42 = 40.52 \ m$$

ANSWER

40.52 m