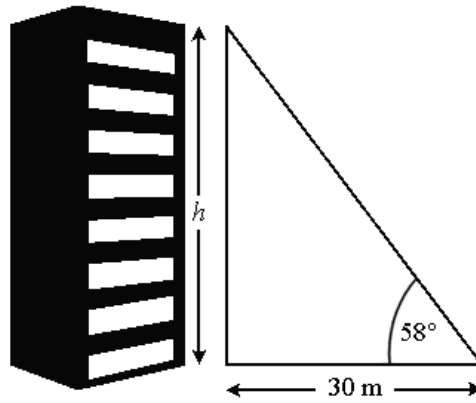


Using trigonometry to calculate length

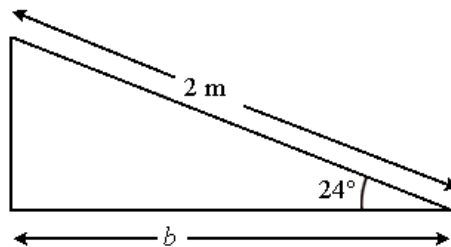


[Not drawn to scale]

Jake measured the height of a building. He stood 30 m away and measured the angle to the top of the building as 58° .

Which method did Jake use to work out the height of the building (h)?

- a) (A) $30 \cos 58^\circ$ (B) $30 \sin 58^\circ$ (C) $30 \tan 58^\circ$ (D) $30 \operatorname{cosec} 58^\circ$
- (E) None of these. The correct method is _____



[Not drawn to scale]

Whetu is building a skateboard ramp. He wants it to be at an angle of 24° and 2 m long. Which method would Whetu use to work out the length of the base (b)?

- b) (A) $2 \cos 24^\circ$ (B) $2 \sin 24^\circ$ (C) $2 \tan 24^\circ$ (D) $2 \operatorname{cosec} 24^\circ$
- (E) None of these. The correct method is _____