ZiloAcademy

✨ Grade 10 Maths — Trigonometric Ratios ✨

Name: Demo **Date:** 26/11/2026

1. In a right-angled triangle, θ = 42° and the hypotenuse is 20 cm. Find the opposite, to 1 decimal place (cm).

2. In a right-angled triangle, θ = 37° and the opposite is 9 cm. Find the hypotenuse, to 1 decimal place (cm).

3. In a right-angled triangle, the hypotenuse is 15 cm and the side opposite θ is 14.1 cm. Find θ, to the nearest degree.

4. In a right-angled triangle, θ = 46° and the hypotenuse is 10 cm. Find the adjacent, to 1 decimal place (cm).

5. Which trigonometric ratio equals opposite ÷ hypotenuse? (sin, cos or tan)

6. Which trigonometric ratio equals opposite ÷ adjacent? (sin, cos or tan)

7. A ramp rises at an angle of 33° and has a horizontal base of 23 m. How long is the ramp, to 1 decimal place (m)?

8. In a right-angled triangle, $\theta = 28°$ and the hypotenuse is 28 cm. Find the adjacent, to 1 decimal place (cm).

9. A 9 m ladder leans against a wall, making an angle of 58° with the ground. How high up the wall does it reach, to 1 decimal place (m)?

10. In a right-angled triangle, the hypotenuse is 13 cm and the side opposite θ is 8.4 cm. Find θ, to the nearest degree.