

Board – Foundation	Class – 8 th	Topic – Trigonometric Ratio
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- In a right-angled triangle, which side is always opposite the right angle?
(a) Base (b) Hypotenuse
(c) Perpendicular (d) Altitude
- What is the value of $\sin 30^\circ$?
(a) 0 (b) 1
(c) $\frac{1}{2}$ (d) $\frac{\sqrt{3}}{2}$
- Which trigonometric ratio is defined as $\frac{\text{Opposite side}}{\text{Hypotenuse}}$?
(a) Cosine (b) Sine
(c) Tangent (d) Cotangent
- If $\cos A = \frac{4}{5}$, what is the value of $\sin A$?
(a) $\frac{3}{5}$ (b) $\frac{4}{3}$
(c) $\frac{5}{4}$ (d) $\frac{3}{4}$
- What is the value of $\tan 45^\circ$?
(a) 0 (b) 1
(c) $\sqrt{3}$ (d) $\frac{1}{\sqrt{3}}$
- Which of the following is equal to $\frac{\sin \theta}{\cos \theta}$?
(a) $\cot \theta$ (b) $\tan \theta$
(c) $\sec \theta$ (d) θ
- The value of $\sin^2 \theta + \cos^2 \theta$ is always:
(a) 0 (b) 1
(c) 2 (d) $\frac{1}{2}$

