

Name _____

Date _____

Cos and Sin Trigonometric Ratios - Step-by-Step Lesson

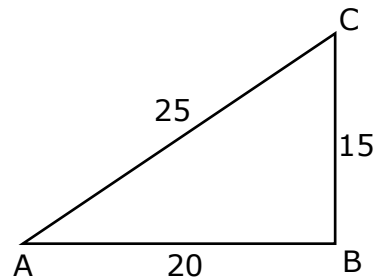
Write each trigonometric ratio.

a) $\sin A$

b) $\cos A$

c) $\sin C$

d) $\cos C$

**Explanation:**Tangent Ratio: for any acute angle θ of a right triangle.

$$\sin \theta = \frac{\textit{opposite}}{\textit{hypotenuse}}$$

$$\cos \theta = \frac{\textit{adjacent}}{\textit{hypotenuse}}$$

Step 3) $\sin A = \frac{\textit{opposite}}{\textit{hypotenuse}}$

$$\sin A = \frac{BC}{AC}$$

$$\sin A = \frac{15}{25}$$

$$\sin A = \frac{3}{5}$$

b. $\cos A = \frac{\textit{adjacent}}{\textit{hypotenuse}}$

$$\cos A = \frac{AB}{AC}$$

$$\cos A = \frac{20}{25}$$

$$\cos A = \frac{4}{5}$$



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$$c. \sin C = \frac{\textit{opposite}}{\textit{hypotenuse}}$$

$$\sin C = \frac{AB}{AC}$$

$$\sin C = \frac{20}{25}$$

$$\sin C = \frac{4}{5}$$

$$d. \cos C = \frac{\textit{adjacent}}{\textit{hypotenuse}}$$

$$\cos C = \frac{BC}{CA}$$

$$\cos C = \frac{15}{25}$$

$$\cos C = \frac{3}{5}$$

