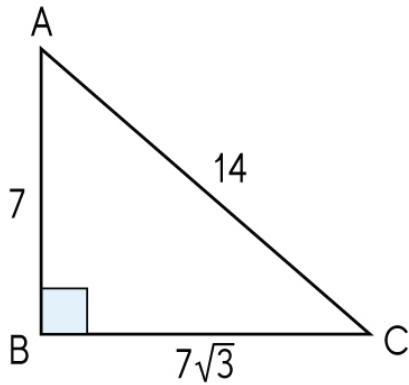


# Trigonometric Ratios

## 'SOHCAHTOA'

1 Find the ratios corresponding to the given right triangle



$$\sin A = \frac{\square}{\square}$$

$$\cos A = \frac{\square}{\square}$$

$$\tan A = \frac{\square}{\square}$$

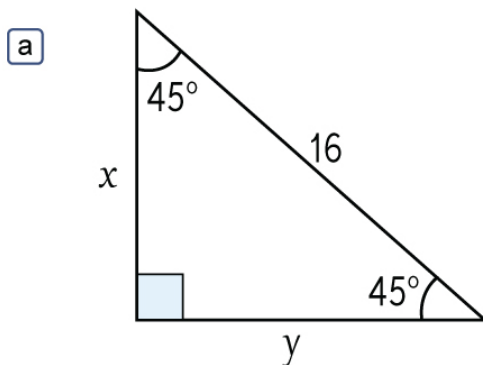
2 Find the value of each expression.

a  $\sin 30^\circ = \square$

b  $\cos 45^\circ = \square$

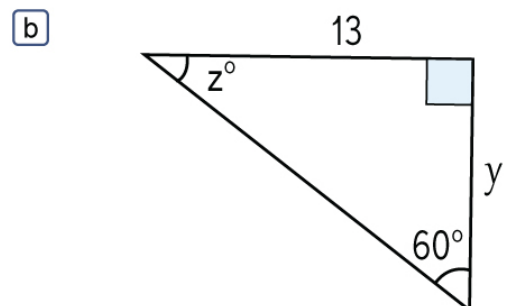
c  $\tan 45^\circ = \square$

3 Use trigonometric ratios to find the missing variables. Round your answer to nearest tenth



$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$



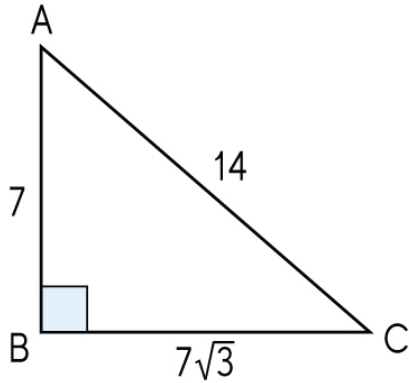
$$z^\circ = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

# Trigonometric Ratios

## 'SOHCAHTOA'

1



Answers

$$\sin A = \frac{7\sqrt{3}}{14}$$

$$\sin C = \frac{7}{14}$$

$$\cos A = \frac{7}{14}$$

$$\cos C = \frac{7\sqrt{3}}{14}$$

$$\tan A = \frac{7\sqrt{3}}{7}$$

$$\tan C = \frac{7}{7\sqrt{3}}$$

2

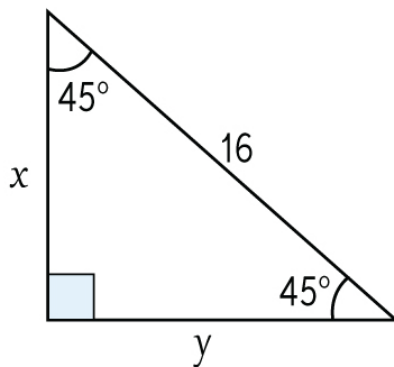
$$\text{a) } \sin 30^\circ = \frac{1}{2}$$

$$\text{b) } \cos 45^\circ = \frac{\sqrt{2}}{2}$$

$$\text{c) } \tan 45^\circ = 1$$

3

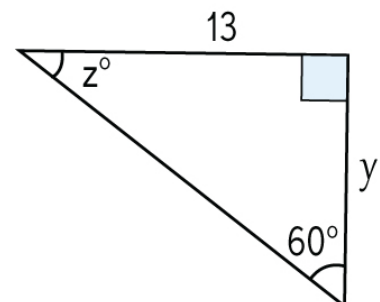
a



$$x = \underline{11.3}$$

$$y = \underline{11.3}$$

b



$$z^\circ = \underline{30^\circ}$$

$$y = \underline{7.5}$$