Name: _____ Date: _____

Draw ΔABC where ∠ACB = 90°, AC = 10, and CB = 24.

1. What is cos A?
2. What is sin B?

Write each trig function in terms of its co-function.

3. sin 64 = _____
4. cos 84 = _____
5. cos 38 = _____
6. sin 24 = _____
7. cos 72 = _____
8. sin 45 = _____
9. sin x = _____
10. cos x = _____
11. tan x = _____

12. In right triangle ABC sin A = 0.8. What is the cos B?

A. 0.8 B. 0.6 C. 1.0 D. 0.5

13. Identify the **two equal** trigonometric ratios from the options given:

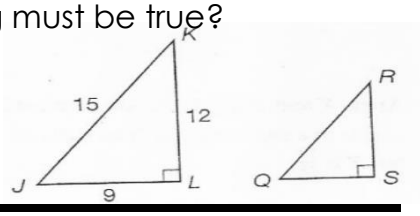
A. sin 30 B. cos 30 C. cos 60 D. tan 30

14. Select the **two** possible simplifications of: *sin 31 + cos 59*

A. 2 sin31
B. sin31*cos 59
C. 2 cos59
D. cos118

15. Triangle JKL is similar to triangle QRS. Which of the following must be true?

A. sin J = sin R = 4/5
B. sin J = sin S = 4/5
C. cos K = cos Q = 4/5
D. cos K = cos R = 4/5



16. $\angle X$ & $\angle Y$ are acute angles in a right triangle. *If* $\tan X = \frac{14}{48}$, *then* $\sin Y =$ _____.

A. $\frac{14}{50}$ B. $\frac{48}{50}$ C. $\frac{48}{14}$ D. $\frac{50}{48}$

17. *If* $\sin A = \frac{3}{5}$, *then* $\cos(90 - A) =$ _____.

A. $\frac{5}{3}$ B. $\frac{3}{5}$ C. $\frac{4}{3}$ D. $\frac{3}{4}$

18. In a right triangle, $\sin Y = \frac{5}{8}$, which of the following is true?

A. $\tan Y = \frac{5}{8}$
B. $\cos Y = \frac{5}{8}$
C. $\sin(90 - Y) = \frac{5}{8}$
D. $\cos(90 - Y) = \frac{5}{8}$