

# ACTIVITY 15.6

## Trigonometric Puzzle

Shade all the regions which display *correct* trigonometric ratios to find the hidden animal.

The puzzle grid contains the following trigonometric ratios and diagrams:

- $\sin i = 4$  (Triangle with sides 3, 4, 5)
- $\cos n = \frac{e}{g}$  (Triangle with sides 8, 6, 10)
- $\tan y = \frac{a}{b}$  (Triangle with sides 3, 4, 5)
- $\cos j = \frac{g}{c}$  (Triangle with sides 8, 6, 10)
- $\tan n = \frac{b}{c}$  (Triangle with sides 3, 4, 5)
- $\cos x = \frac{b}{c}$  (Triangle with sides 3, 4, 5)
- $\sin e = 0.6$  (Triangle with sides 6, 8, 10)
- $\sin y = 0.6$  (Triangle with sides 3, 4, 5)
- $\tan a = \frac{4}{3}$  (Triangle with sides 3, 4, 5)
- $\cos q = 0.8$  (Triangle with sides 8, 6, 10)
- $\tan r = \frac{a}{b}$  (Triangle with sides 3, 4, 5)
- $\cos f = 0.8$  (Triangle with sides 3, 4, 5)
- $\sin x = \frac{1}{14}$  (Triangle with sides 1, 14, 14.07)
- $\tan a = \frac{12}{5}$  (Triangle with sides 5, 12, 13)
- $\tan b = \frac{v}{w}$  (Triangle with sides 3, 4, 5)
- $\sin d = \frac{12}{13}$  (Triangle with sides 5, 12, 13)
- $\sin p = \frac{a}{c}$  (Triangle with sides 3, 4, 5)
- $\sin l = xy$  (Triangle with sides 3, 4, 5)
- $\tan y = \frac{2}{a}$  (Triangle with sides 3, 4, 5)
- $\sin g = \frac{e}{f}$  (Triangle with sides 3, 4, 5)
- $\cos k = \frac{a}{c}$  (Triangle with sides 3, 4, 5)
- $\cos a = fg$  (Triangle with sides 3, 4, 5)
- $\tan h = \frac{13}{12}$  (Triangle with sides 5, 12, 13)
- $\cos f = \frac{l}{n}$  (Triangle with sides 3, 4, 5)
- $\tan m = bc$  (Triangle with sides 3, 4, 5)
- $\sin c = \frac{z}{x}$  (Triangle with sides 3, 4, 5)
- $\tan m = \frac{b}{a}$  (Triangle with sides 3, 4, 5)