

# What Did The Leopard Say After Lunch?

TO ANSWER THIS QUESTION:

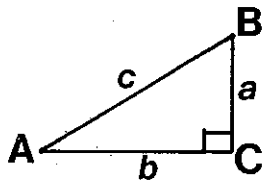
Use the table of trigonometric ratios to do each exercise. Find each answer at the bottom of the page and write the corresponding letter above it.

Find the following:

(L)  $\sin 35^\circ$     (T)  $\tan 10^\circ$     (E)  $\cos 65^\circ$

(A)  $\cos 70^\circ$     (I)  $\sin 85^\circ$     (T)  $\tan 50^\circ$

Use the figure at the right for the remaining problems.



- (A) If  $m\angle A = 40^\circ$ , then  $\frac{a}{c} =$
- (H) If  $\frac{a}{c} = 0.966$ , then  $m\angle A =$
- (T) If  $m\angle A = 55^\circ$ , then  $\frac{a}{c} =$
- (E) If  $\frac{a}{c} = 0.707$ , then  $m\angle A =$
- (T) If  $m\angle A = 80^\circ$ , then  $\frac{b}{c} =$
- (Y) If  $\frac{b}{c} = 0.500$ , then  $m\angle A =$
- (O) If  $m\angle A = 25^\circ$ , then  $\frac{a}{b} =$
- (T) If  $\frac{a}{b} = 1.428$ , then  $m\angle A =$
- (H) If  $m\angle B = 30^\circ$ , then  $\frac{a}{c} =$
- (L) If  $\frac{a}{c} = 0.996$ , then  $m\angle B =$
- (R) If  $m\angle B = 75^\circ$ , then  $\frac{b}{a} =$
- (S) If  $\frac{b}{a} = 0.839$ , then  $m\angle B =$
- (H) If  $m\angle B = 15^\circ$ , then  $\frac{b}{c} =$
- (P) If  $\frac{b}{c} = 0.906$ , then  $m\angle B =$

Angle	Sin	Cos	Tan
0°	0.000	1.000	0.000
5°	0.087	0.996	0.087
10°	0.174	0.985	0.176
15°	0.259	0.966	0.268
20°	0.342	0.940	0.364
25°	0.423	0.906	0.466
30°	0.500	0.866	0.577
35°	0.574	0.819	0.700
40°	0.643	0.766	0.839
45°	0.707	0.707	1.000
50°	0.766	0.643	1.192
55°	0.819	0.574	1.428
60°	0.866	0.500	1.732
65°	0.906	0.423	2.145
70°	0.940	0.342	2.747
75°	0.966	0.259	3.732
80°	0.985	0.174	5.671
85°	0.996	0.087	11.430
90°	1.000	0.000	-----

1.192	0.866	0.342	0.174	3.732	45°	0.643	5°	0.574	60°	0.259	0.996	0.819	55°	75°	0.423	40°	65°	0.466	0.176
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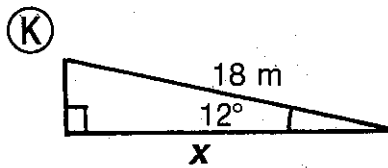
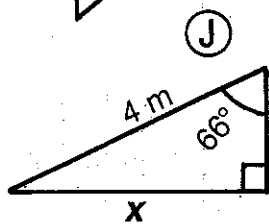
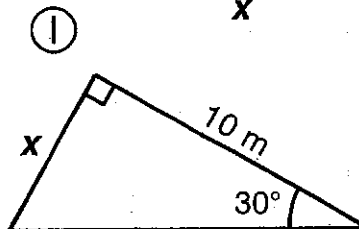
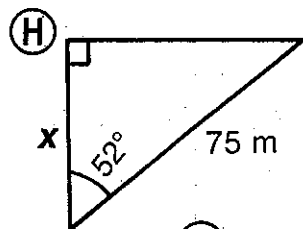
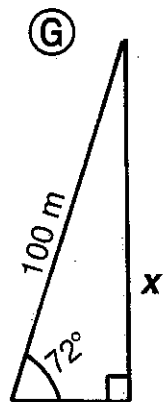
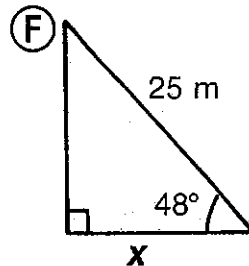
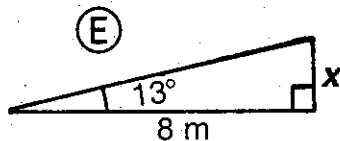
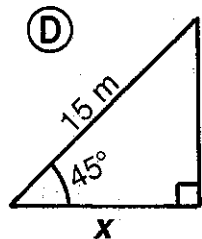
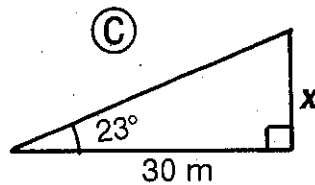
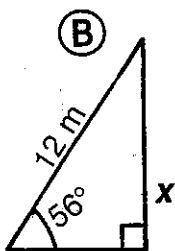
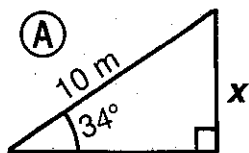
# Did You Hear About...

A	B	C	D	E	F	G
H	I	J	K	L	M	?

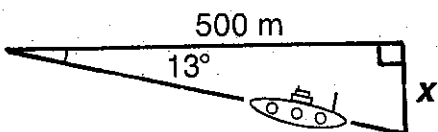
## DIRECTIONS:

In any triangle below, find the length  $x$ . Round it to the nearest 0.1 meter. Find your answer in the answer column and notice the word next to it. Write this word in the box that has the same letter as that triangle.

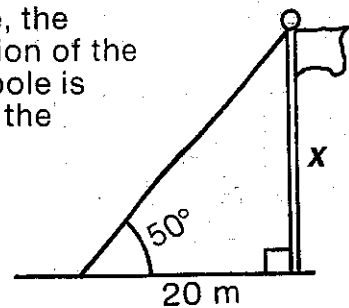
KEEP WORKING AND YOU WILL HEAR ABOUT A NOVEL NAME!



(L) A submarine dives at an angle of  $13^\circ$ . How far is it beneath the surface at a point 500 meters along the surface from where it submerged?



(M) At a point 20 meters from a flagpole, the angle of elevation of the top of the flagpole is  $50^\circ$ . How tall is the flagpole?



- 16.8 m—ROBINS
- 3.7 m—BECAUSE
- 16.7 m—ROOSTER
- 23.8 m—SO
- 46.2 m—NAME
- 22.7 m—SUN
- 44.9 m—BEST
- 5.6 m—THE
- 87.3 m—WAS
- 3.2 m—BANKS
- 10.6 m—GAVE
- 98.5 m—WRECKED
- 5.8 m—ROBINSON
- 9.9 m—FARMER
- 115.5 m—CREW
- 17.6 m—HE
- 12.7 m—WHO
- 15.4 m—PET
- 95.1 m—THE
- 1.8 m—HIS