

Did You Hear About...

A	B	C	D	E	F	G
The	farmer	who	gave	his	Rooster	the
H	I	J	K	L	M	?
Name	Robinson	Because	He		SO	

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!

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

$\sin 34 = \frac{x}{10}$
 $x = 5.6 \text{ m}$

$\sin 56 = \frac{x}{12}$
 $x = 9.9 \text{ m}$

$\tan 23 = \frac{x}{30}$
 $x = 12.7 \text{ m}$

$\cos 45 = \frac{x}{15}$
 $x = 10.6 \text{ m}$

$\tan 13 = \frac{x}{8}$
 $x = 1.8 \text{ m}$

$\cos 48 = \frac{x}{25}$
 $x = 16.7 \text{ m}$

$\sin 72 = \frac{x}{100}$
 $x = 95.1 \text{ m}$

$\cos 52 = \frac{x}{75}$
 $x = 46.2 \text{ m}$

$\tan 30 = \frac{x}{10}$
 $x = 5.8 \text{ m}$

$\sin 66 = \frac{x}{4}$
 $x = 3.7 \text{ m}$

$\cos 12 = \frac{x}{18}$
 $x = 17.6 \text{ m}$

L A submarine dives at an angle of 13° . How far is it beneath the surface at a point 500 meters along the surface from where it submerged?

$\tan 13 = \frac{x}{500}$
 $x = 115.4 \text{ m}$

M At a point 20 meters from a flagpole, the angle of elevation of the top of the flagpole is 50° . How tall is the flagpole?

$\tan 50 = \frac{x}{20}$
 $x = 23.8 \text{ m}$