SINE (angle) = percentage

A percentage of what? -- the opposite side is this percentage of the hypotenuse

SINE (30°) = 0.5

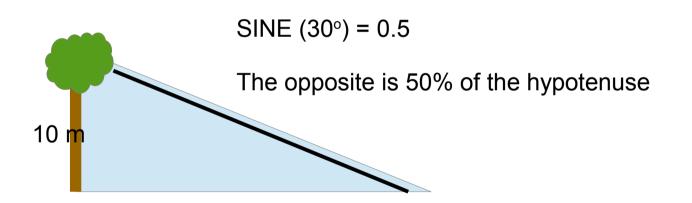
The opposite is 50% of the hypotenuse

SINE (70°) = 0.93

The opposite is 93% of the hypotenuse

## SINE (angle) = percentage

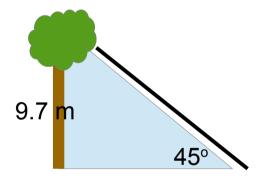
How do we use that information? -- To solve for an unknown side



Since we know this relationship, if this is a tree that is 10 m high... and a kite Is stuck in the tree... how long is the string of the kite?

SINE (angle) = percentage

How do we use that information? -- To solve for an unknown side



9.7 is 70.7% of however long The string is (x)

x \* 0.707 = 9.7 x = 13.72 m

