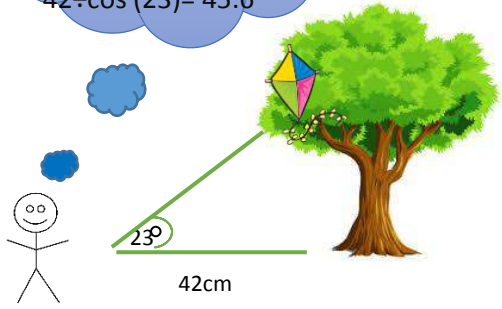


Bob

The missing side is hypotenuse

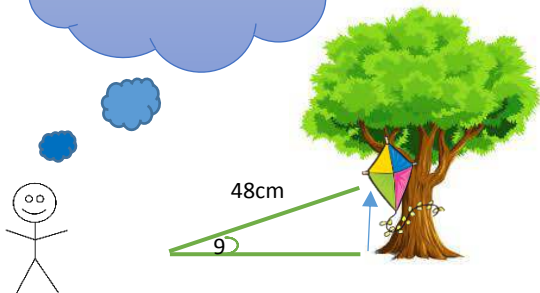
He uses cos to work out the problem

$$42 \div \cos(23) = 45.6$$



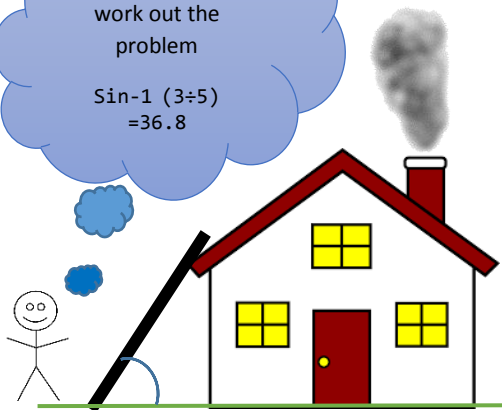
He uses sin to work out the problem

$$\sin(9) \times 48 = 7.5$$



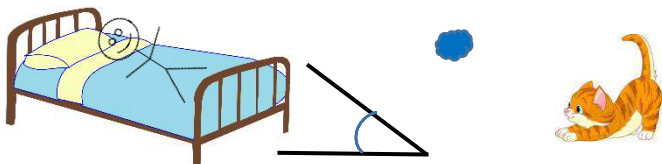
he uses trig to work out the problem

$$\sin^{-1}(3 \div 5) = 36.8$$



He uses sin

$$\sin(25) \div 1 = 0.42$$



This is Bob.

He needs to get his kite out of the tree. He needs to work out how far it is from him to the kite.

The adjacent is 42cm and the angle is 23 degrees.

He needs to find the hypotenuse

He uses trig to work out how far it is.

Bob has now worked out how far away it is but then his kite falls to the middle of the tree.

He knows the hypotenuse is 48cm and now the angle is 9 degrees.

He needs to work out the opposite

Bob is home now and is trying to get on his roof.

He wants to work out the angle that his ladder is leaning.

His ladder is 5m long

His roof is 3m high

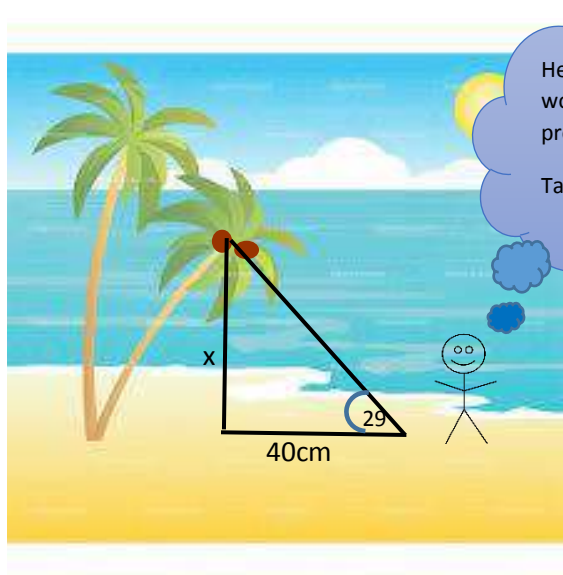
Bob is in bed and his cat needs to jump up on his bed.

He needs to find out how far he has to jump

He needs to find the hypotenuse

The bed is 1m high

The angle is 25 degrees



He uses tan to
work out the
problem

$$\tan(29) \times 40 = 35.4$$

Bob goes to the beach because it is such a nice day.

He sees some coconuts up in the tree and he wants to get them down.

To get the coconuts down he needs to know how high they are up the tree.

The distance from him to the tree is 40 cm and the angle is 29 degrees

He has to find the x

The end

