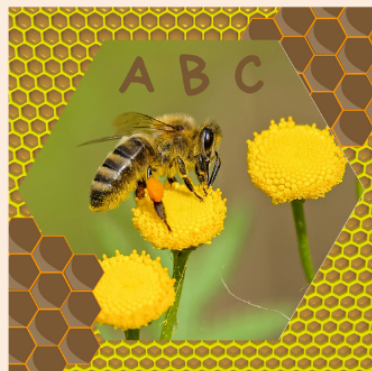




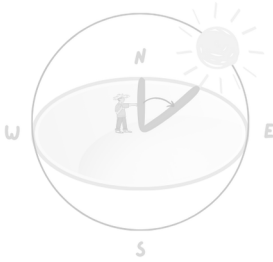
Instructions for the ABC stickers:

The stickers will fit AVERY Labels - code 936074, 99.1mm x 67.7mm
Just load the paper into your printer and choose to print only page 2
of this document. You will be able to print 8 stickers per sheet. Each
letter will fill the next sticker block so save your sheet for the next
letter. Alternatively, you can print on normal paper, cut the sticker out
and glue into your math journal.

I hope you enjoy using these resources with your family. I am happy
for you to share these pages with others but please respect the
creative copywrite and link back to jo.mathinnature.



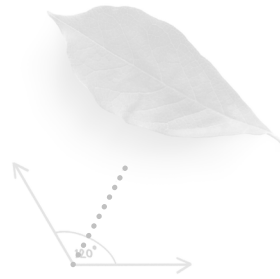
Azimuth



The Azimuth angle is the horizontal angle measured clockwise from North.

Bisect

Like the mid vein of a leaf



To bisect is to divide into two equal parts. The line which divides is called the bisector.

Converge



THESE LINES LOOK LIKE THEY APPROACH EACH OTHER BUT THEY ACTUALLY NEVER MEET.

Approach toward a definite value or point.

Depth



THESE POSTS HAVE MARKS WHICH SHOW THE DEPTH OF THE WATER.

The distance from top to bottom.

Equilateral Triangle

A triangle with 3 sides of equal length. The angles inside the triangle are all 60°



Fractals



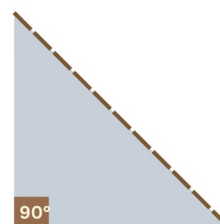
Have a repeating pattern that we see again and again when we zoom in.

Gradient



Measures how steep or gentle a slope is. The formula is $m = \text{rise}/\text{run}$

Hypotenuse



The side of a right angle triangle which is opposite the 90 degree corner. It is the longest side!

HYPOTENUSE

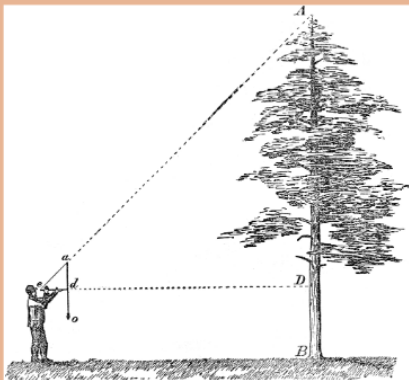
LET'S LEARN MORE

A hypotenuse is the longest side of a right angle triangle. The word is from a Greek word which means to 'stretch under'. We can think of the hypotenuse as the line which stretches under the right angle. Right angled triangles are important in helping us to find out the height or length things that we can't measure with a tape measure, like the height of a tree or the width of a river!

Right angle triangle



HYPOTENUSE

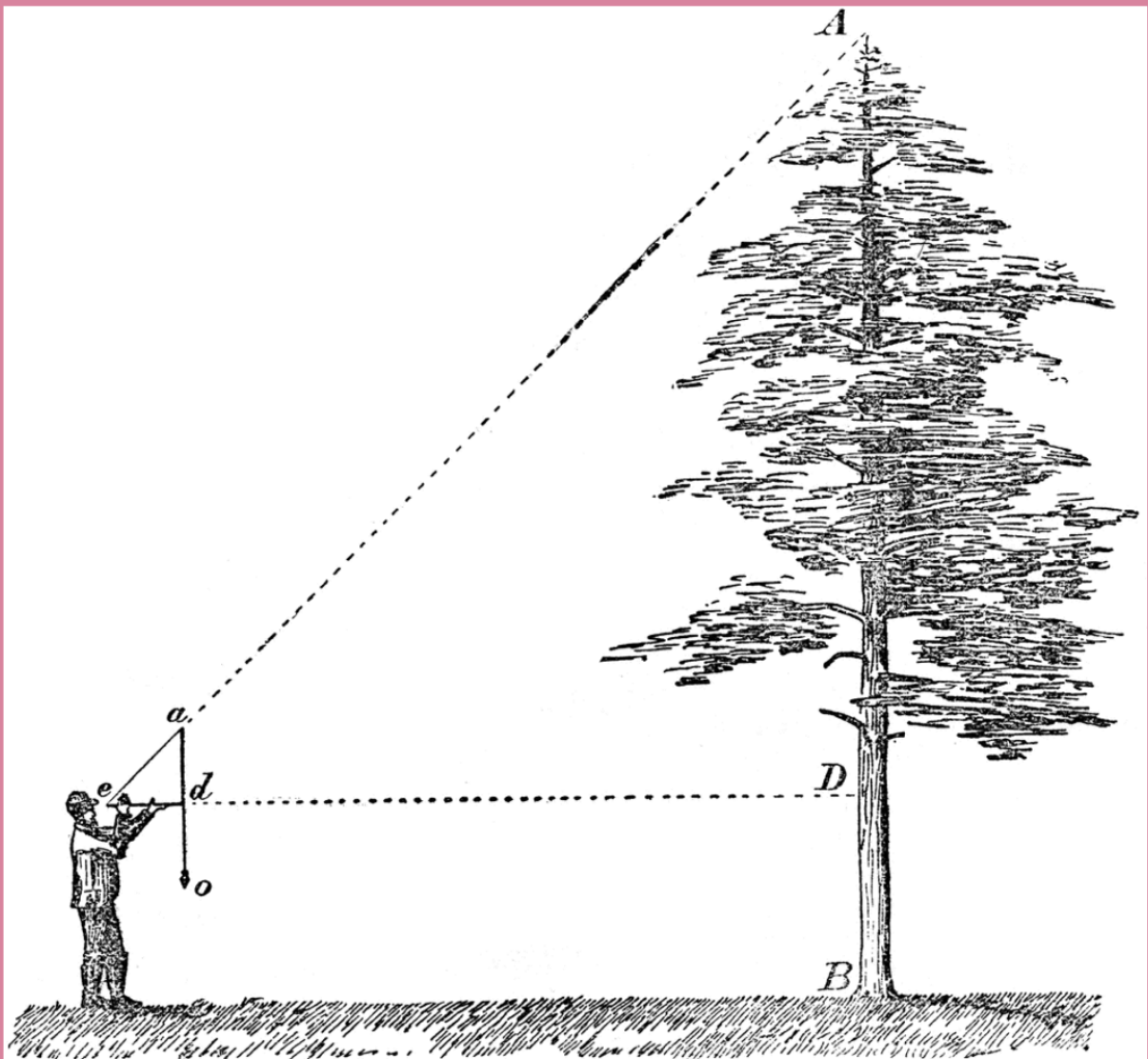


HYPOTENUSE

IN THE REAL WORLD

Instructions

Would you like to measure a tall tree using the hypotenuse of a right angle triangle? Go outside and find a tall tree with a large area around it. Take a 45 degree, right triangle out side with you. You need to hold the triangle like in the picture. Look along the hypotenuse and walk backwards until you can line the top of the tree with the top of the triangle. Measure the distance from the base of the tree to your feet and the height from the ground to the triangle. This measurement will be the height of the tree. Why? Well, it's math!!!



HYPOTENUSE

IN THE REAL WORLD

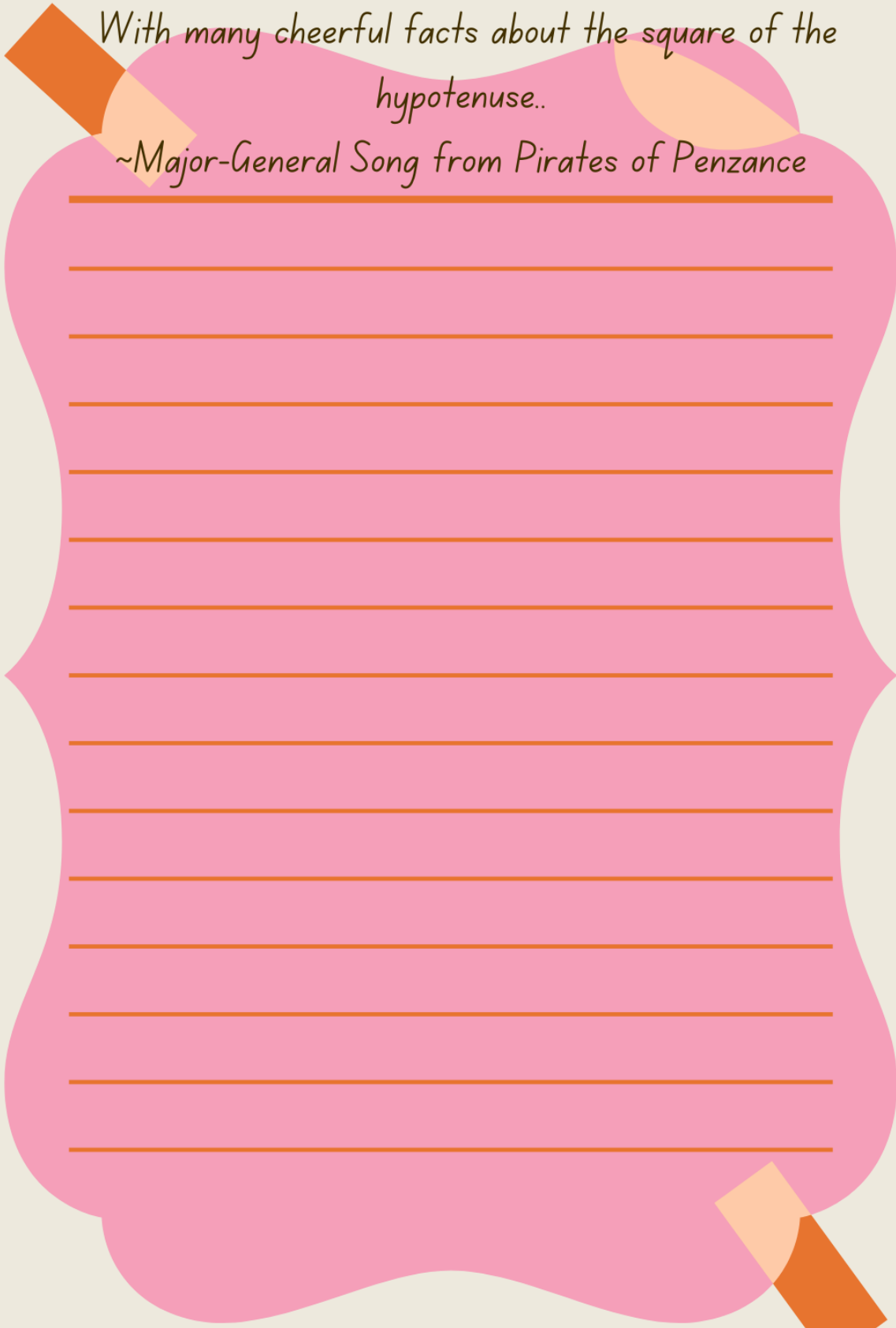
Instructions

Cut the triangle out of cardboard.



I'm very well acquainted, too, with matters mathematical,
I understand equations, both the simple and quadratical,
About binomial theorem I'm teeming with a lot o' news,
With many cheerful facts about the square of the
hypotenuse..

~Major-General Song from Pirates of Penzance



A large, pink, cloud-shaped area with horizontal orange lines, resembling a notepad or a space for writing. The lines are evenly spaced and extend across the width of the cloud. The cloud has a soft, wavy border and is set against a light yellow background.

MY NOTES ON 'HYPOTENUSE'

Learn more about right triangles in this

[VIDEO](#)

For more advanced students an introduction to trigonometry can be watched [HERE](#)