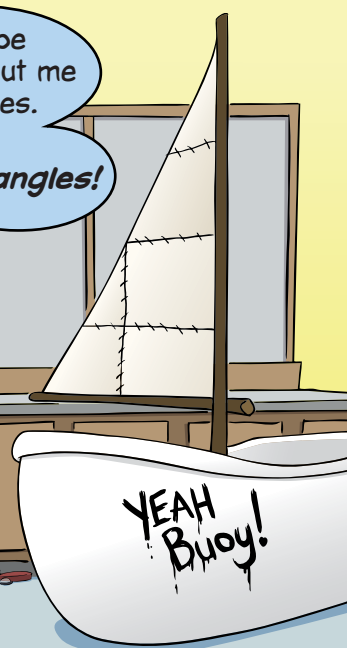


Today, we'll be talkin' more about me favorite shapes.

Triangles!



To begin, we'll be findin' the area of some of me first triangular sails.

Let's start with this one.

'Tis a right triangle, 2 feet wide and 4 feet tall.

How could we be findin' its area?

The area of this part of the sail is two square feet.

There are extra parts here and here.

How can we include the area of these pieces?

I know!

If we cut off the top of the sail...

...and put it down here...

...we make a square.

This triangle has the same area as a 2 ft by 2 ft square!

4 square feet!

Aye. The area of this triangle be 4 square feet.

I got 4 square feet a different way.

Shiver me timbers! How'd you do it, lad?

If we attach two right triangles, we can make a rectangle.

The rectangle has an area of 8 square feet...

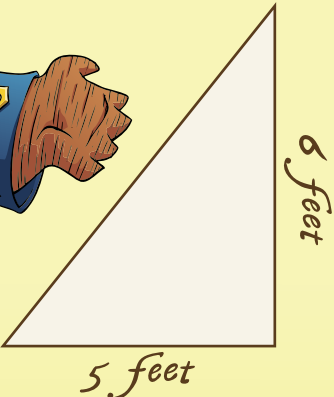
...and each triangle is half the area of the rectangle!
Half of 8 is 4, so this triangle has an area of 4 square feet.

4 feet

2 feet

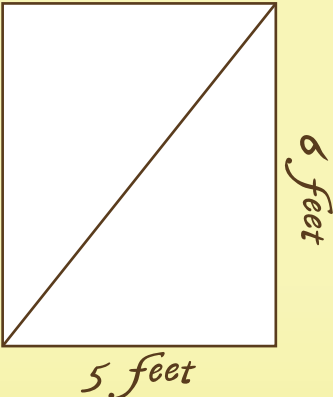
Good thinkin'.

Let's try another. What be the area of this right triangle?

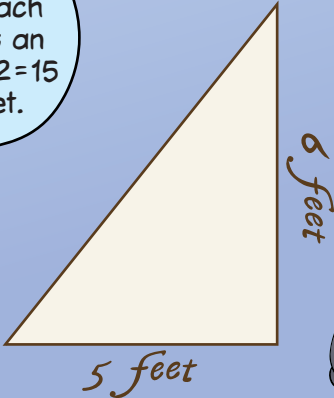


We can put two right triangles together to make a rectangle.

The rectangle has an area of $6 \times 5 = 30$ square feet.




Since there are two triangles, each triangle has an area of $30 \div 2 = 15$ square feet.



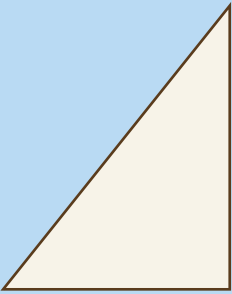
Aye. To find the area of a right triangle, 'tis easiest to think of it as half of a rectangle.

To find the area of a rectangle, we multiply its width by its height.



Area of a rectangle
= width \times height

So, to find the area of a right triangle...



...we multiply its width by its height, then divide by 2.

Area of a right triangle
= width \times height \div 2