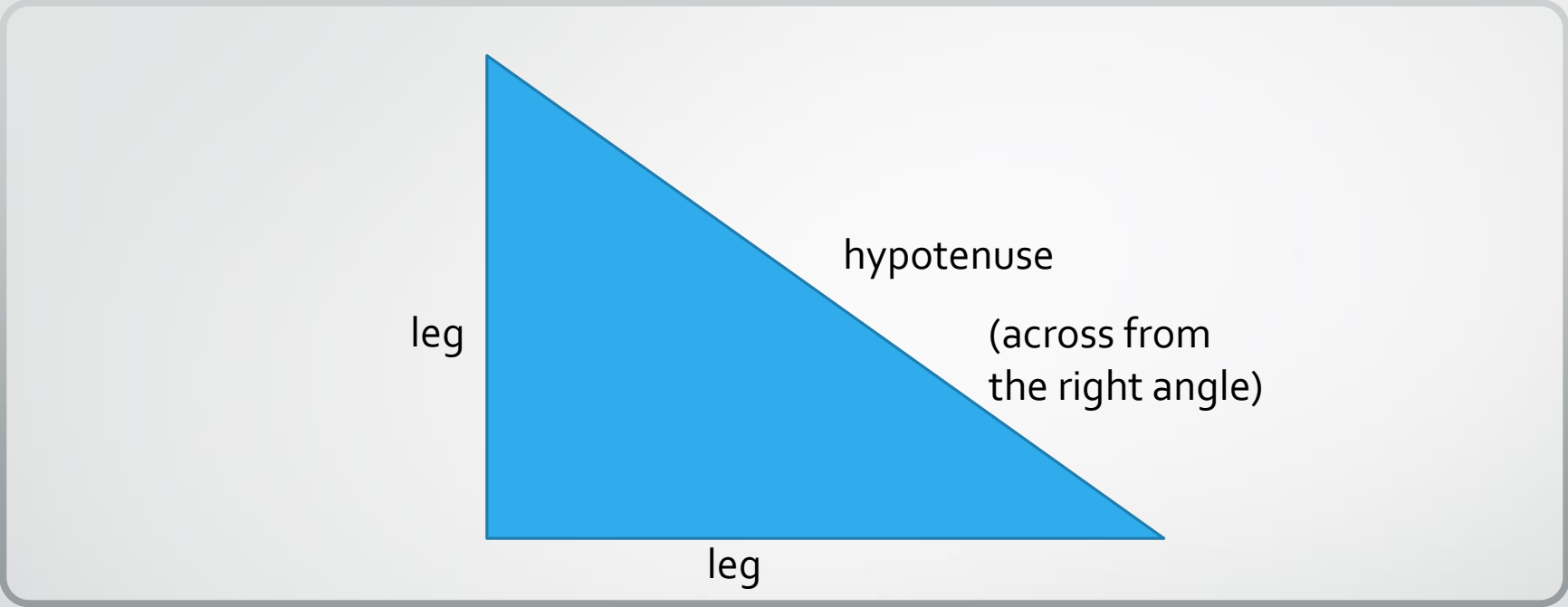


# Pythagorean Theorem (and right triangles)

# Right triangles

- A right triangle has a  $90^\circ$  angle
  - We mark the right angle with a box





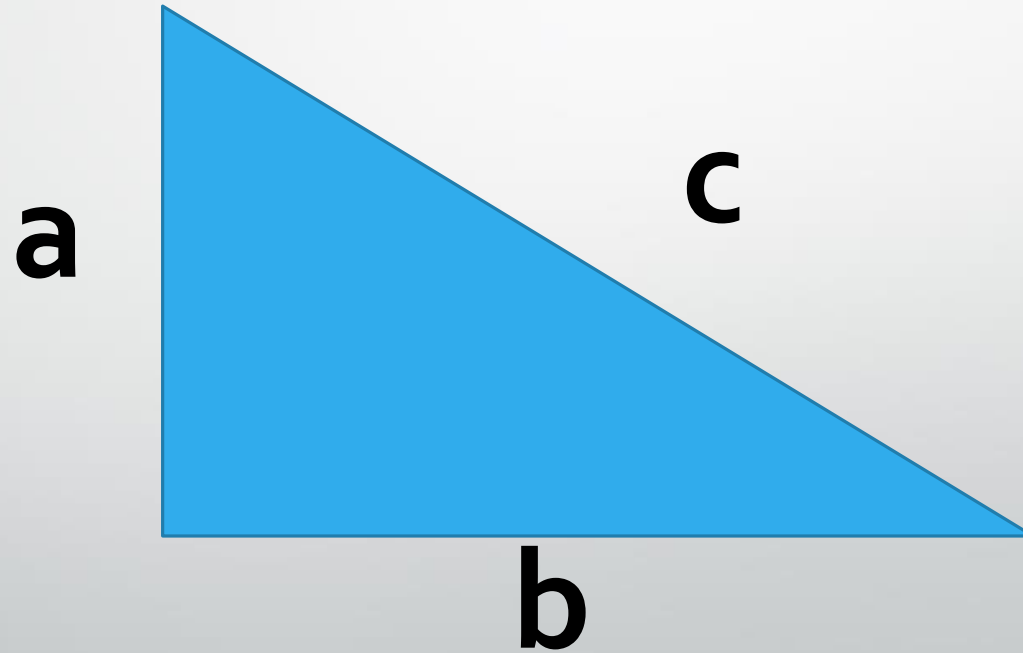
# Pythagorean Theorem

- In a right triangle the square of the length of the hypotenuse is equal to the sum of the squares of the lengths of the legs.

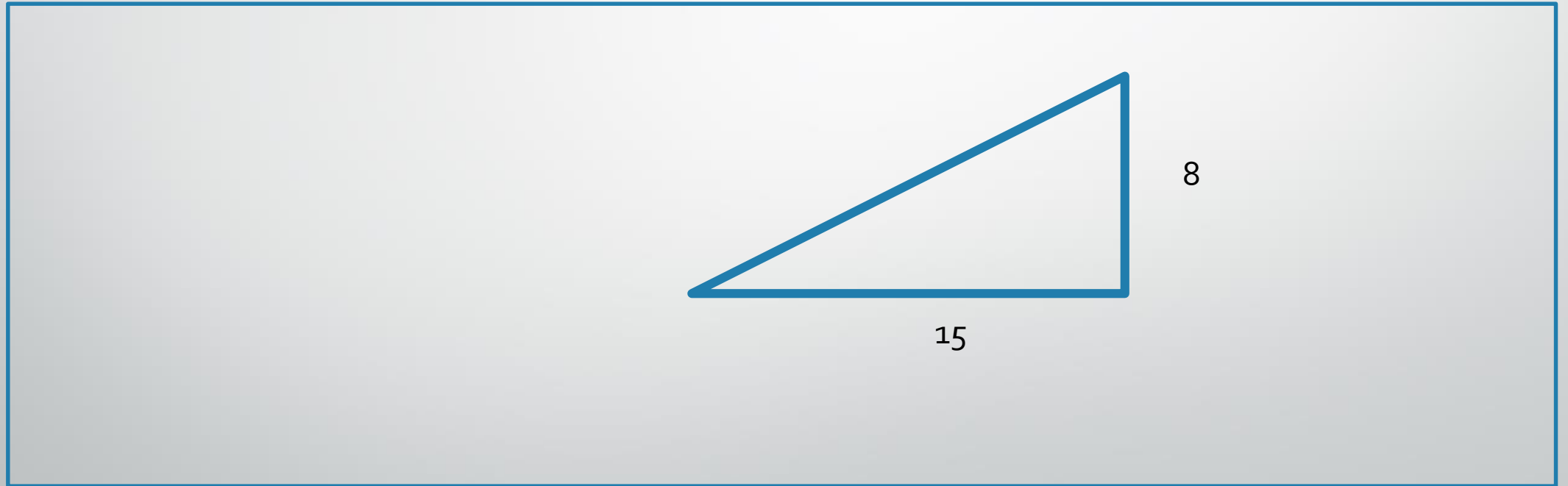
- $a^2 + b^2 = c^2$

"c" is always the hypotenuse

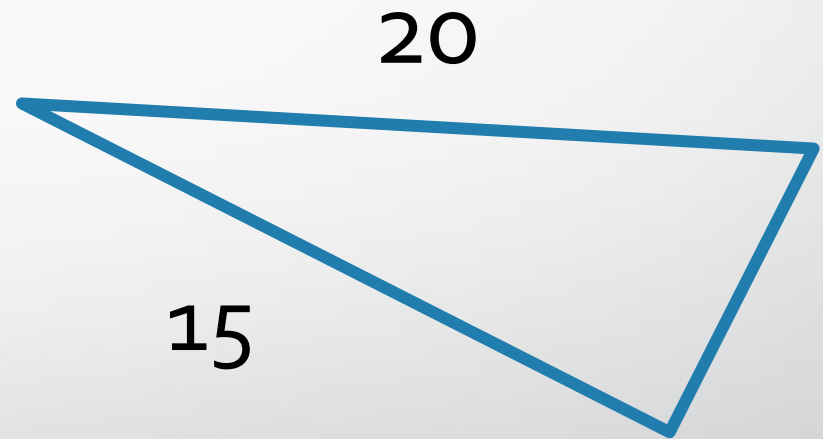
"a" and "b" are the legs



Find the length of the hypotenuse

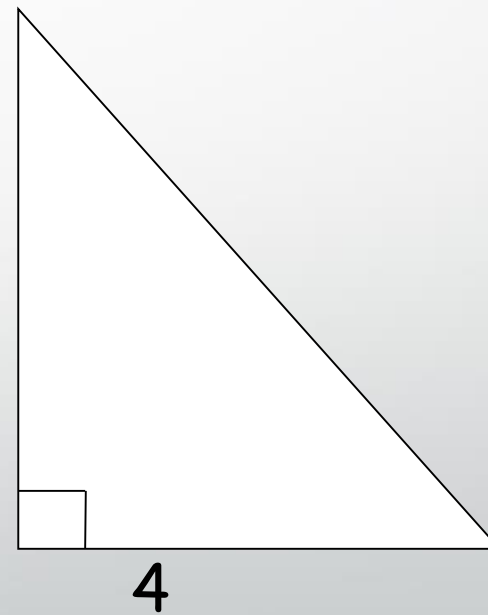


Find the length of the leg



FIND THE MISSING SIDE

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FIND THE MISSING SIDE

