

Do Now

Please work quietly on this Do Now.
Thank you!

Which of these square numbers also happens to be the sum of two smaller square numbers?

- A) 16
- B) 25
- C) 36
- D) 49



Do Now

Which of these square numbers also happens to be the sum of two smaller square numbers?

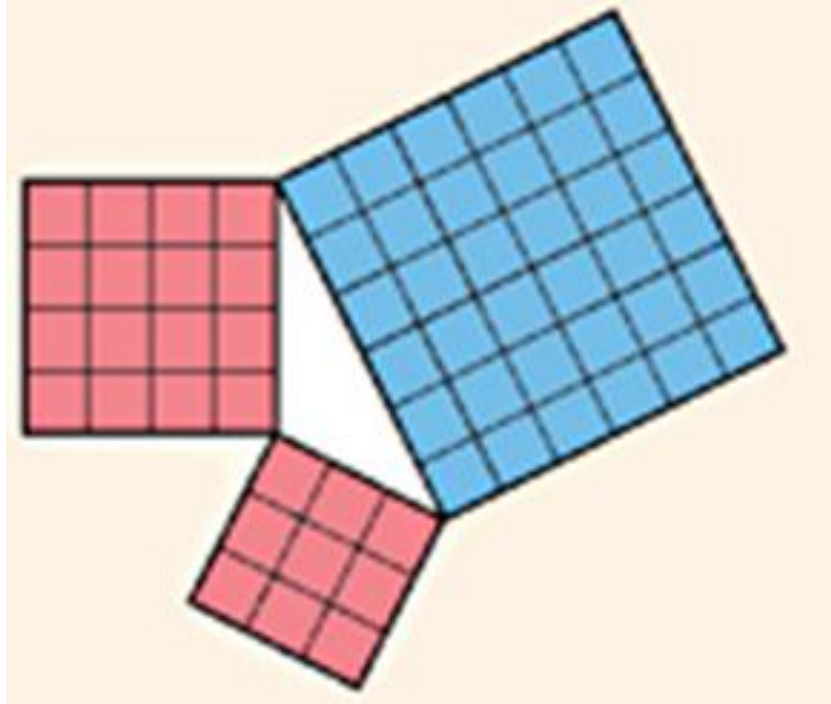
- A) 16
- B) 25
- C) 36
- D) 49

Millionaire clip



Doc Cam Activity Sheet

Explore the Pythagorean Theorem



How would you classify this triangle?.

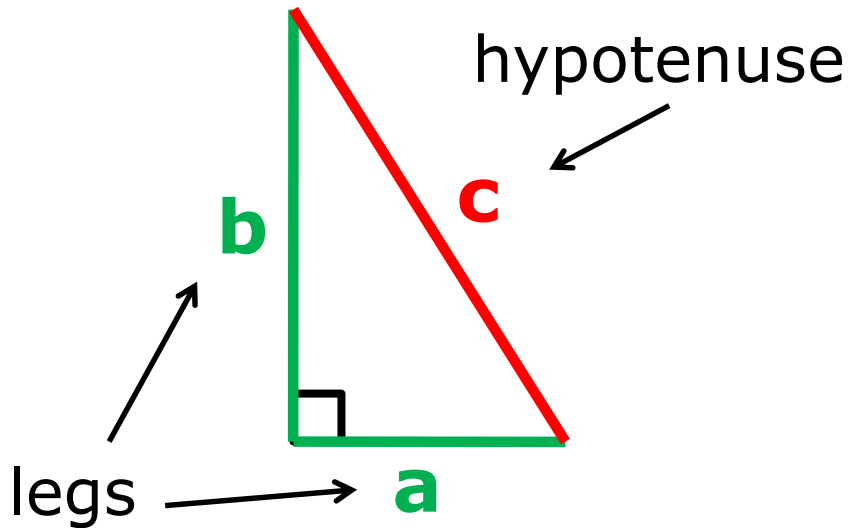
Does the square of the length of the longest side equal the sum of the squares of the lengths of the two shorter sides?

Explore the Pythagorean Theorem

Water demo

NOTES

Pythagorean Theorem: In any right triangle, the sum of the squares of the lengths of the two legs is equal to the square of the length of the hypotenuse.

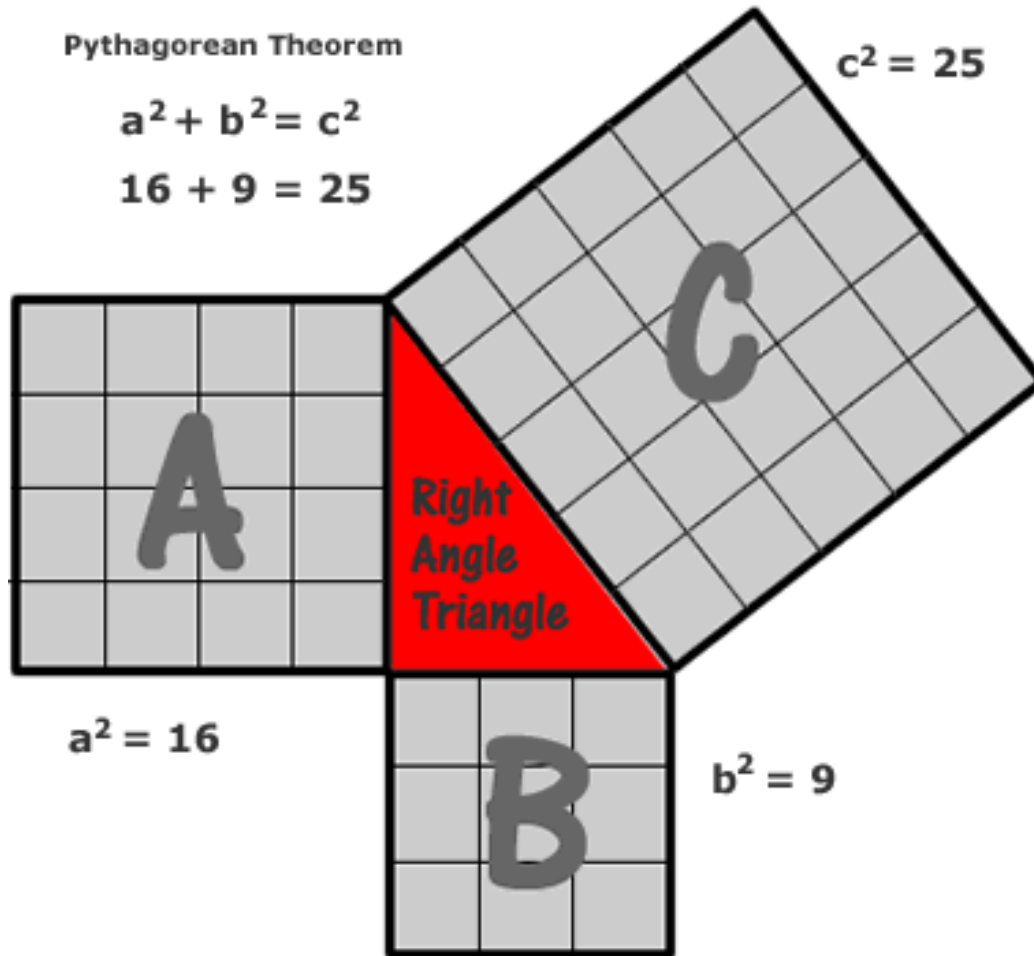


$$a^2 + b^2 = c^2$$

Pythagorean Theorem

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

$$16 + 9 = 25$$



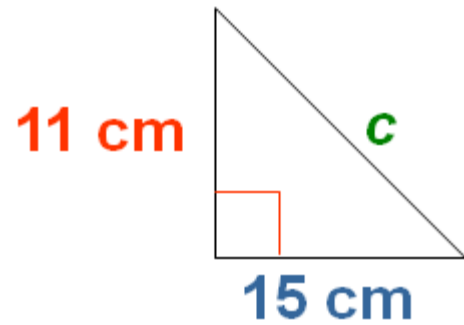
Pythagorean Theorem Song:

$$\underline{a^2 + b^2 = c^2}$$

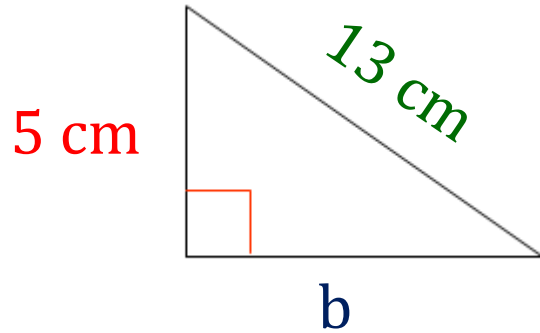
Explore the Pythagorean Theorem

Larry the Squirrel game

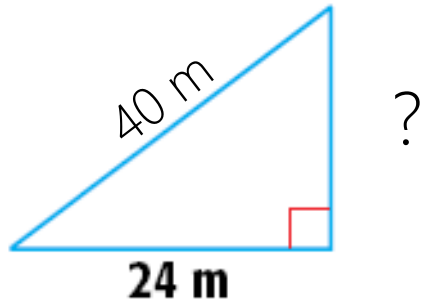
Examples: Find the length of the hypotenuse of the right triangle pictured below.



Find the length of the leg of the right triangle pictured below.



Find the missing side length of the triangle pictured below.



A square field has sides of 75 feet. About how far is it from one corner of the field to the opposite corner of the field? Round your answer to the nearest tenth.

A rectangular field has a length of 100 yards and a width of 33 yards. About how far is it from one corner of the field to the opposite corner of the field? Round your answer to the nearest tenth.