



Apply the Pythagorean theorem

1

Find what the square of 'a' would be equal to

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

$$a = ?$$

$$b = 12$$

$$c = 18$$

A $a^2 = 46,656$

B $a^2 = 115$

C $a^2 = 180$

D $a^2 = 218$

E $a^2 = 130$

F $a^2 = 154$

2

Find what the square of 'a' would be equal to

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

$$a = ?$$

$$b = 11$$

$$c = 17$$

A $a^2 = 99$

B $a^2 = 60$

C $a^2 = 278$

D $a^2 = 108$

E $a^2 = 168$

F $a^2 = 195$

3

Find the value of 'c' in this equation

$$6^2 + 8^2 = c^2$$

A $c = 10$

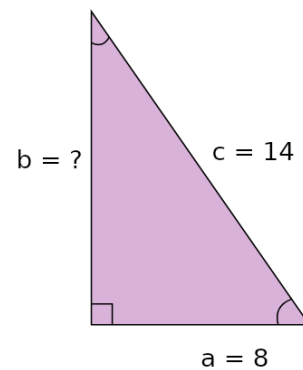
B $c = 6$

C $c = 11$

D $c = 9$

E $c = 8$

F $c = 14$

4Find the length of the missing side as an equation based on the Pythagorean theorem: $a^2 + b^2 = c^2$ 

A $b = \sqrt{8^2 - 14^2}$

B $b = \sqrt{14^2 + 8^2}$

C $b = \sqrt{14^2 - 8^2}$

D $b = 8^2 - 14^2$

E $b = \sqrt{8^3 + 14^3}$

6

Find the radical (square root) for the value of 'c' in this equation

$$4^2 + 3^2 = c^2$$

A $c = \sqrt{34}$

B $c = \sqrt{43}$

C $c = \sqrt{25}$

D $c = \sqrt{7}$

7

Approximate the value of 'b' in this equation

$$9 + b^2 = 64$$

A $b = 8.9$

B $b = 7.4$

C $b = 8.4$

D $b = 10.4$

E $b = 3.7$

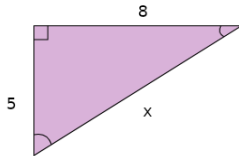
F $b = 7.8$



Apply the Pythagorean theorem

8

Find the length of the missing side as a decimal value based on the Pythagorean theorem



A $x=8.59$

B $x=5.23$

C $x=6.91$

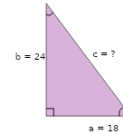
D $x=40$

E $x=9.43$

F $x=7.75$

9

Find the length of the missing side as a decimal value based on the Pythagorean theorem: $a^2 + b^2 = c^2$



A $c=30$

B $c=28$

C $c=27$

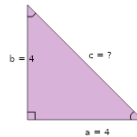
D $c=432$

E $c=33$

F $c=26$

10

Find the length of the missing side as a square root value, based on the Pythagorean theorem: $a^2 + b^2 = c^2$



A

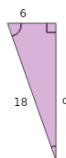
$c = \sqrt{0}$

B

$c = \sqrt{32}$

11

Find the length of the missing side as a square root value, based on the Pythagorean theorem



A

$d = \sqrt{288}$

B

$d = \sqrt{684}$

C

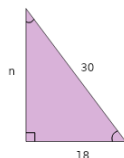
$d = \sqrt{936}$

D

$d = \sqrt{1,008}$

12

Find the length of the missing side as a decimal value based on the Pythagorean theorem



A $n=48$

B $n=34$

C $n=22$

D $n=31$

E $n=24$

F $n=30$