

SMPI Al-Azhar 52

WORKSHEET

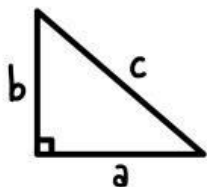
PHYTAGOREAN THEOREM



NAME:

PHYTAGOREAN

Look at this following theorem!



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

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

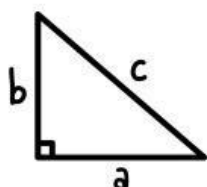
$$c^2 = a^2 + b^2$$

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

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

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

Look at the following image, determine the length of the side/leg (a)!



1. Known:

$$b = 3 \text{ cm}$$

$$c = 5 \text{ cm}$$

$$a = \dots\dots \text{ cm}$$

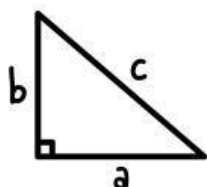
2. Known:

$$b = 9 \text{ cm}$$

$$c = 15 \text{ cm}$$

$$a = \dots\dots \text{ cm}$$

Look at the following image, determine the length of the side/leg (b)!



3. Known:

$$a = 12 \text{ cm}$$

$$c = 13 \text{ cm}$$

$$b = \dots\dots \text{ cm}$$

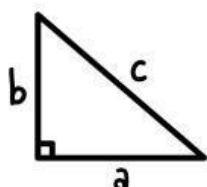
4. Known:

$$a = 16 \text{ cm}$$

$$c = 20 \text{ cm}$$

$$b = \dots\dots \text{ cm}$$

Look at the following image, determine the length of the side/hypotenuse (c)!



5. Known:

$$a = 15 \text{ cm}$$

$$b = 8 \text{ cm}$$

$$c = \dots\dots \text{ cm}$$

6. Known:

$$a = 24 \text{ cm}$$

$$b = 10 \text{ cm}$$

$$c = \dots\dots \text{ cm}$$

From the following pairs of numbers, determine which are satisfy the Pythagorean Triples!

12, 16, 20	
15, 17, 9	
24, 25, 7	
$\sqrt{3}$, 1, 2	
10, 13, 17	

What is the conclusion about our material today?



**FIND A WORD
THAT
DESCRIBES
HOW YOU
FEEL TODAY!**

D	E	A	E	X	C	I	T	E	D	A	S
C	O	N	F	U	S	E	D	Y	E	D	U
A	B	G	O	T	U	V	S	Z	N	F	R
U	F	R	U	S	T	R	A	T	E	D	P
P	G	Y	H	C	I	J	D	I	R	H	R
S	K	O	L	A	S	U	V	R	V	A	I
E	P	M	U	R	A	T	I	E	O	P	S
T	N	Q	R	E	W	O	Y	D	U	P	E
B	O	R	E	D	U	Z	E	D	S	Y	D