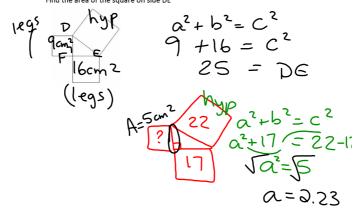
Mrs. Peden

	Pythagorean Relationship Summary
	Who was Pythagoras? He was a Greek philosopher who lived from about 569 BC to 475 BC and has played key roles in developments of mathematics, astronomy and the theory of music. However, he is best known for proving that they Pythagorean Theorem was true!
p 6	A recall of naming triangles: A recall of naming triangles: A C C (hyp) (5 ide opposite opp

Mrs. Peden	Name: Date:
What we learned yesterday:	Dutc.
Pythagorean Relationship in Words: For any Right angle triangle, the square equal to the Sum (addition) of the squares of the o	of the hypotenu se ther two sides.
Pythagorean Relationship in Algebra	$\alpha \sim \kappa_{\rm MP}$
NOTE: Sides and b are always the Smaller The Hypotenuse will ALWAYS be the ARGEST Anges t squared value!	Value (legs) distance or the

Mrs. Peden	Name:	
	Date:	

Using the Theorem to determine the squared area of a side For example 1: A square has been drawn on each side of a right angle triangle AHB.



Mrs. Peden	Name:
	Date:
Example 3: For the following sets	of three squares does Pythagorean hold true? If so,
identify what the length of the hy a) 4 cm ² , 12 cm ² 19 cm ²	$\frac{a^2 + b^2 = \mathbf{C}^2}{a^2 + b^2}$
No	4+12 7/9 X

b)
$$24 \text{ cm}^2$$
, 5 cm^2 , 19 cm^2 $a^2 + b^2 = C^2$
 $5 + 19 = 24 \text{ V}$

for each triangle, please identify the hypotenuse side

Work: p.53 # 4-9 a,b, 10-11, 13, 2-3