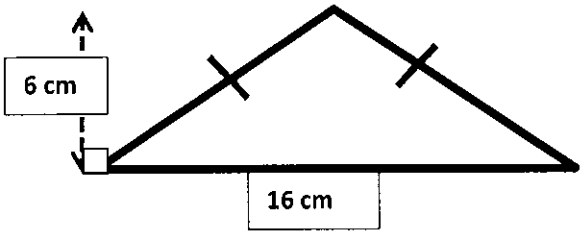
COLLABORATIVE ACTIVITY

Pythagorean Application TASK
G08Unit3

Name _____

For the three problems below determine the mistakes and show a corrected method for finding the answer. Be sure to give sufficient details to demonstrate your knowledge.

1] John found the area of the triangle by performing the following mathematics. Determine where John made made a mistake and describe a method that would have gotten him the correct answer.



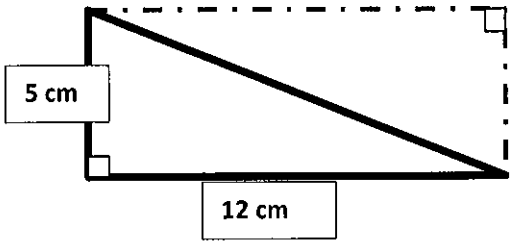
JOHN'S CALCULATIONS

A = 6cm x 16cm

16
x 6
36
60
96

AREA OF THE TRIANGLE = 96 cm^2

2] Jan finds the perimeter of this triangle by performing the the following calculations. Determine where Jan made a mistake and describe a method that would have gotten the correct answer.



JAN'S CALCULATIONS

Perimeter = L+L+L

5 cm
+ 12 cm
+ 17 cm
34 cm

PERIMETER OF THE TRIANGLE IS 34 cm.

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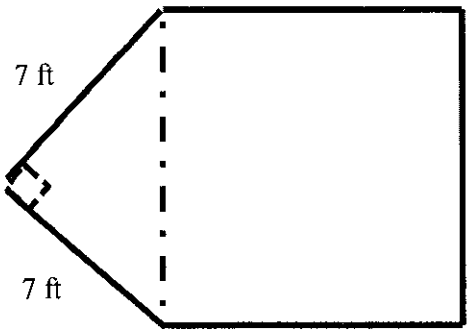
3] Joshua finds the perimeter of the following composite figure composed of a square and right triangle so that a braid may be cut to install around its outer edge. Determine what is wrong with his calculations and how to find the correct length.



JOSHUA'S CALCULATIONS

Hypotenuse is $\sqrt{7+7} = \sqrt{14}$

Perimeter of pentagon is
$7 + \sqrt{14} + \sqrt{14} + \sqrt{14} + 7 =$

$7 + \sqrt{42} + 7 =$

$14 + \sqrt{42} = 14 + 6.48 =$

PERIMETER IS
APPROXIMATELY 20.48 ft

4] Which error was hardest to find? What did you learn about using the Pythagorean Theorem from this lesson?

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