Pythagorean Theorem Extensions



Often on tests you will be asked to use the Pythagorean Theorem as a step to solve a problem. Be careful – the answer you get for one of your sides of a right triangle (a, b, or c) is not always the final answer to the problem!

In the problems that follow, read the question, write (in words) what you will do to find the answer, show your work, and then answer the problem.

	X=61.03	50 yd.
question being asked:	K= 1225 + 2500 . X=3725	35 yd corn
Final answer to the	352+502=X2	4
6/435	Desquare the length of the	of the square section planted with beans?
Missing side of the	Ouse P.T. to And the hypotenus	3. A farmer has planted the piece of land shown below with
question being asked:	1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	
Final answer to the	189=25+x2	
	132-52+XX	13 cm 5 cm
12 cm	rectarglis length.	×
Missing side of the right triangle:	Use P.T. to find the	2. What is the area of the rectangle shown below?
1100	K-10-3	A POPULA
question being asked:	49+X 11 /04.76	X
Final answer to the	+ X = 12.4	answer to the nearest tenth of an inch.
	1 P	(i.e. the length of metal Jimmy will need to buy). Round your
right triangle:	find missing lea.	Find the perimeter of the bracket
Missing side of the	Use Nth. Theorem to	bracket to hold up a display shelf. He draws a diagram of the
Answer(s)	Written description of problem solving process and work	Problem Situation
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	8+15=25 Direct route: 17	Yvette's 15 miles Frances' house
Postor corne mover.	X = 8	X 17 miles
Final answer to the	メンナングラファ	Mail 7
8	The outer.	many miles does Frances save when she goes directly to the mall?
Missing side of the right triangle:	(a) Calculate length of each	takes the mall – one when she picks up her friend Yvette first, and one when she goes straight to the mall. How
	Ouse Pr. to find x.	6. The map below shows two
	X 11 9	← 12 feet → →
question being asked:		24-x feet
Final answer to the	144-578-484	still left standing?
	X2+144=576-48x+X2	from the base of the tree. How tall is the part of the tree
right triangle:	x2+122= (24-x)2	it broke, the top of the tree touched the ground 12 feet
Missing sides of the	Use P.T. to find lag of 15. A.	5. A 24-foot tall tree was hit by lightning during a storm, cracked, and fell over. After
11:5	メルトル	27 m
question being asked:	X2-286	18 18
Final answer to the	152+192=X2	15 ISm
	@ use PT to find missing size.	7
right triangle: ソイ・2	a segment of to the saw side	the approximate perimeter of her garden?
Missing side of the	O make a right of by drawing	4. Jessica has a garden in the share shown below. What is
Answer(s)	Written description of problem solving process and work	Problem Situation



