

Problem Solving - Geometry 1

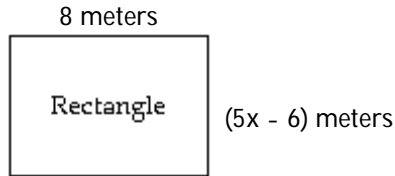
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve.

- 1) You have taken up gardening for relaxation and have decided to fence in your new rectangular shaped masterpiece. The length of the garden is 4 meters and 46 meters of fencing is required to completely enclose it. What is the width of the garden? 1) _____

Provide an appropriate response.

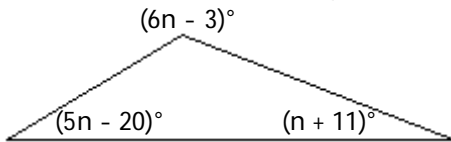
- 2) Write an expression that represents the area of the rectangle. Simplify the expression. 2) _____



Solve the problem.

- 3) Find the length of a rectangular lot with a perimeter of 142 meters if the length is 5 meters more than the width. ($P = 2L + 2W$) 3) _____

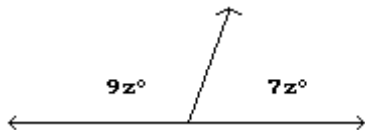
- 4) Find the measure of each angle in the triangle. 4) _____



- 5) A rectangular Persian carpet has a perimeter of 192 inches. The length of the carpet is 18 inches more than the width. What are the dimensions of the carpet? 5) _____

- 6) A square plywood platform has a perimeter which is 9 times the length of a side, decreased by 15. Find the length of a side. 6) _____

- 7) Find the measures of the supplementary angles. 7) _____



Answer Key

Testname: UNTITLED2

- 1) 19 m
- 2) $(40x - 48)$ sq m
- 3) 38 m
- 4) $60^\circ, 93^\circ, 27^\circ$
- 5) 39 in., 57 in.
- 6) 3
- 7) 101.25° and 78.75°