

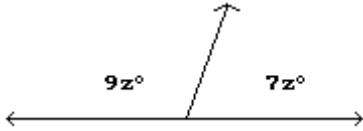
Problem Solving - Geometry 2

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

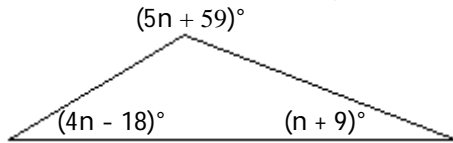
Solve the problem.

- 1) A square plywood platform has a perimeter which is 7 times the length of a side, decreased by 6. Find the length of a side. 1) \_\_\_\_\_

- 2) Find the measures of the supplementary angles. 2) \_\_\_\_\_



- 3) Find the measure of each angle in the triangle. 3) \_\_\_\_\_



- 4) Find the length of a rectangular lot with a perimeter of 124 meters if the length is 8 meters more than the width. ( $P = 2L + 2W$ ) 4) \_\_\_\_\_

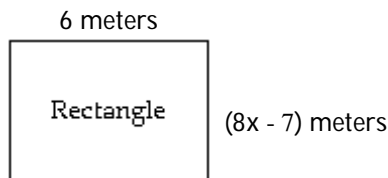
- 5) A rectangular Persian carpet has a perimeter of 220 inches. The length of the carpet is 18 inches more than the width. What are the dimensions of the carpet? 5) \_\_\_\_\_

Solve.

- 6) 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 52 meters of fencing is required to completely enclose it. What is the width of the garden? 6) \_\_\_\_\_

Provide an appropriate response.

- 7) Write an expression that represents the area of the rectangle. Simplify the expression. 7) \_\_\_\_\_



## Answer Key

Testname: UNTITLED2

- 1) 2
- 2)  $101.25^\circ$  and  $78.75^\circ$
- 3)  $34^\circ$ ,  $124^\circ$ ,  $22^\circ$
- 4) 35 m
- 5) 46 in., 64 in.
- 6) 22 m
- 7)  $(48x - 42)$  sq m