

## Lesson 5 Assignment Applications of Geometry

Date \_\_\_\_\_ Period \_\_\_\_\_

- 1) The dirt of a rectangular garden has a length three times as big as the width. Find the perimeter and area of the garden.
  
  
  
  
  
  
  
  
  
  
- 2) A 13-foot ladder is leaning against a wall. If the base of the ladder is 7 feet from the wall, how high up on the wall does the ladder reach?
  
  
  
  
  
  
  
  
  
  
- 3) Teresa is walking from her house to work. On a grid, her house is located at (8, -2) and her work is at (-6, 7). How far does Teresa have to walk to reach work?
  
  
  
  
  
  
  
  
  
  
- 4) The length of a ceiling is 6 less than four times the width. Find the perimeter and area of the ceiling.
  
  
  
  
  
  
  
  
  
  
- 5) A park is in the shape of a rectangle 3 km long and 1.6 km wide. If you want to walk diagonally across the park, how far will you walk?
  
  
  
  
  
  
  
  
  
  
- 6) Two trains left Frog City at the same time. One traveled north at 70 mph. The other traveled east at 50 mph. How far apart were the trains at the end of two hours?
  
  
  
  
  
  
  
  
  
  
- 7) A 30-foot waterslide extends 18 feet out into the water. How high is the top of the slide?

## Answers to Lesson 5 Assignment Applications of Geometry (ID: 1)

1)  $P = 8w$   $A = 3w^2$

2) 10.95 feet

3) 16.64

4)  $P = 10w - 6$   $A = 4w^2 - 6w$

5) 3.4 km

6) 172.05 miles

7) 24 feet