Name: _____   Section: _____   Date: _____

"Laugh as much as you breathe and love as long as you live." - Unknown

Part One: Multiple Choice - Circle the correct answer. No work is required.

1) The point of concurrency of the three medians of a triangle is called _____ of the triangle.

   (a) incenter   (b) centroid   (c) median point   (d) centroid

2) Which is a possible value of x?

   (a) 3   (b) 4   (c) 14   (d) 17

3) Using the Hinge Theorem and the diagram, you can conclude:

   (a) $m\angle LKM < m\angle QSR$ (b) $QP = LM$ (c) $PS = LM$ (d) None of these
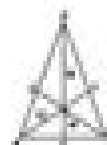
4) If $\overline{DE}$ is the midsegment of $\triangle ABC$, what is the value of x?

   (a) 4.5   (b) 9
   (c) 14   (d) 18

5) If point M is the centroid of $\triangle ABC$, what is the length of $\overline{AE}$?

   (a) 12   (b) 18
   (c) 20   (d) 27

6) What are the angles of the triangle listed from least to greatest?

   (a) $\angle R, \angle S, \angle T$ (b) $\angle S, \angle T, \angle R$
   (c) $\angle T, \angle R, \angle S$ (d) $\angle S, \angle R, \angle T$

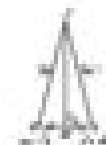7) Using the quadrilateral $LMNP$, which statement is true?

   (a) $m\angle LPM < m\angle NMP$ (b) $m\angle LMP > m\angle NPM$
   (c) $m\angle LPM > m\angle NMP$ (d) $m\angle LMP < m\angle NPM$

8) What is the length of $\overline{IX}$?

   (a) 4   (b) 26   (c) 18   (d) 13

9) What is $m\angle BAC$?

   (a) 4.5°   (b) 5.5°   (c) 5°   (d) 34°

Part Two: Short Answer - Please show work as to be able to validate your answer using a definition, theorem or postula

10) Find the value of x.

11) Use the Hinge Theorem or its converse and properties of triangles to write and solve an inequality to describe a restriction the value of x.
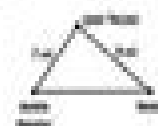

12) Use $\triangle RTY$, where S, U, and W are midpoints of the sides. If $RT = 8x + 12$, and $UW = 10x - 9$, answer a and b below.

   (a) Find the value of x.   (b) $RT =$ _____

13) Use the diagram to answer each of the following. Describe the range of possible distances from the beach to the movie theater.

Geometry Ch 9 Workbook Challenge Answers

George E. Witter

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of the plane is to be given a color how many colors do we need if every two points at unit distance are to receive distinct colors More than half a century ago it was established that the least number of colorsneeded for such a coloring is either 4 or 5 or 6 or 7 Well which is it Despite efforts by a legion of very bright people many of whom developed whole branches of mathematics and solved problems that seemed much harder not a single advance towards the answer has been made This mystery and scores of other similarly simple questions form one level of mysteries explored In doing this the author presents a whole lot of attractive results in an engaging way and with increasing level of depth   <u>Naval Research Logistics Quarterly</u> ,1958   <u>Geometric Constructions</u> George E. Martin,2012-12-06 Geometric constructions have been a popular part of mathematics throughout history The ancient Greeks made the subject an art which was enriched by the medieval Arabs but which required the algebra of the Renaissance for a thorough understanding Through coordinate geometry various geometric construction tools can be associated with various fields of real numbers This book is about these associations As specified by Plato the game is played with a ruler and compass The first chapter is informal and starts from scratch introducing all the geometric constructions from high school that have been forgotten or were never seen The second chapter formalizes Plato s game and examines problems from antiquity such as the impossibility of trisecting an arbitrary angle After that variations on Plato s theme are explored using only a ruler using only a compass using toothpicks using a ruler and dividers using a marked rule using a tomahawk and ending with a chapter on geometric constructions by paperfolding The author writes in a charming style and nicely intersperses history and philosophy within the mathematics He hopes that readers will learn a little geometry and a little algebra while enjoying the effort This is as much an algebra book as it is a geometry book Since all the algebra and all the geometry that are needed is developed within the text very little mathematical background is required to read this book This text has been class tested for several semesters with a master s level class for secondary teachers

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