Name _____ Date _____ Class _____

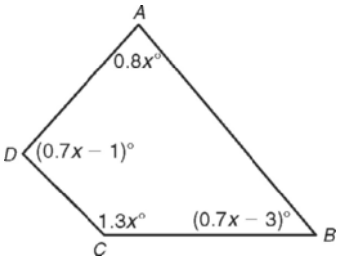
LESSON 2-1

Practice C

Solving Linear Equations and Inequalities

Find the measure of each angle in the quadrilaterals below to the nearest tenth of a degree. (Hint: The sum of angle measures in a quadrilateral is 360°.)

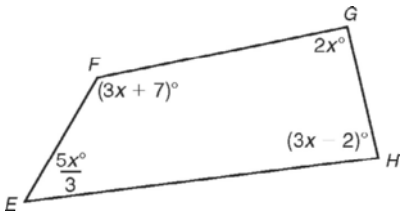
1.



∠A _____ ∠B _____

∠C _____ ∠D _____

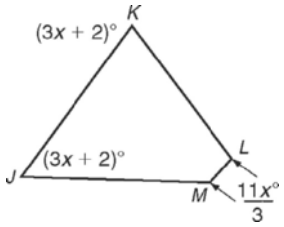
2.



∠E _____ ∠F _____

∠G _____ ∠H _____

3.



∠J _____ ∠K _____

∠L _____ ∠M _____

Write an equation or inequality to solve each problem. Then solve. Tell what the solution represents.

4. Harriet set up a website to sell jewelry. The web hosting fee is $39.95 per month. There is a one-time setup fee of $50.00. There is also a 1.5% fee on every sale.

   a. During her first month in business, Harriet paid $95.95 to her web host. This includes the setup fee. What was her sales total for her first month?

   _____

   b. During her second month, Harriet makes a goal of selling at least $500 worth of jewelry. If Harriet meets her goal, what is the minimum she will pay in web hosting fees?

   _____

   c. To increase her earnings, Harriet's current goal is for her web hosting fees to be no greater than 5% of sales. What is the minimum her sales must be each month to meet this goal?

   _____

5. What value(s) of k will make the equation $-2(x + 7) - 11k = -(3 - x)$ an identity? _____

6. What value(s) of q will make the equation $2(x - q) = 2x - 1$ a contradiction? _____