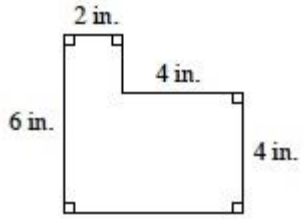
7th grade HW #38 | **Name: _____ Date: _____**

1. Find the area and perimeter of the figure below. Be sure to use the proper units for each measurement.



2. At your first job, you may be amazed to learn that one fourth of your paycheck will go to pay taxes. Suppose the amounts listed in parts (a) through (c) below are the earnings for three employees. Determine how much of each paycheck will go to pay taxes.

a. $84

b. $128

c. $210

3. Is it proportional? Determine whether each of the following scenarios is proportional and provide a brief explanation of why or why not.

a. Carl just bought a music player and plans to load 50 songs each week. Is the relationship between the number of weeks after Carl bought the music player and the number of songs on his player proportional?

b. Anna has a new video game. It takes her five hours of playing the game to master level one. After so much time, Anna understands the game better and it only takes her three hours of playing the game to master level two. Is the number of hours played and the game level proportional?

4. What fraction of one hour (60 minutes) is represented by the following numbers of minutes? Simplify each fraction whenever possible. A sketch of a clock might help you.

a. 10 minutes

b. 15 minutes

c. 30 minutes

d. 20 minutes

5. Rainer bought 1.83 pounds of lunch meat at the store for $10.98. What was the unit rate (price) of the lunch meat?	
Describe: What do you know about the problem? If unit rate is the price per one unit of something, this question is looking for the price per _____ ? (fill in the blank with the correct unit)	Define: Write a numerical expression to illustrate the relationship between the cost and weight of the lunch meat.
Do: Calculate the unit rate for the lunch meat.	Decide: Check your answer. Does it make sense?
Declare: In a complete sentence, state the unit rate for the lunch meat Rainer bought. Be sure to use the correct units.	

6. Spend 10 minutes on IXL.