Name _____ Class _____ Date _____

4-5 Think About a Plan

Linear Inequalities

Editable

Employment A student with two summer jobs earns $10 per hour at a café and $8 per hour at a market. The student would like to earn at least $800 per month.

a. Write and graph an inequality to represent the situation.

b. The student works at the market for 60 h per month and can work at most 90 h per month. Can the student earn at least $800 each month? Explain how you can use your graph to determine this.

Understanding the Problem

1. What do you know about the student's hourly rates?

_____

2. What do you know about how much the student would like to earn each month?

_____

3. What do you know about the number of hours the student can work each month?

_____

Planning the Solution

4. What inequality represents the number of hours that the student can work each month? _____

5. What inequality represents the amount that the student can earn each month?

_____

Getting an Answer

6. How can you use these two inequalities to find out if the student working 60 hours a month at the market can make $800 per month?

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7. How can you determine the number of hours that the student should work each month? What are the number of hours the student should work at the market and at the cafe to make at least $800 per month?

_____

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