Name _____ Date _____ Class _____

Write the correct answer.

1. Sumiko can watch only 10 hours of television each week. She has watched 4 hours of television already. Write and solve an inequality to show how many more hours of television Sumiko can watch.

    Solution:

    Let h = hours of TV she has left

    $4 + h \leq 10$

    $h \leq 6$

2. Wayne's homework is to answer at least 20 questions from his textbook. So far, he has finished 9 of them. Write, solve, and graph an inequality to show how many more problems Wayne must do.

    Let _____ = number of questions left to answer

    _____ ≥ 2

    _____ $\geq$ _____

The table below shows how much money each class has raised for charity so far. Use this information to answer questions 3–5.

3. The school has a goal of raising at least $3,000. Which inequality shows how much more money m the school needs to raise to reach its goal?

    A $m \geq 215$

    B $m < 215$

    C $m \geq 215$

Class	Amount Raised ($)
Seniors	870
Juniors	650
Sophomores	675
First-Years	590

4. The juniors want to raise more money than the seniors. Which expression shows how much more money j the juniors must raise to beat the seniors?

    F $j < 220$

    G $j \geq 220$

    H $j > 220$

5. A business plans to donate no more than half as much as the senior class raises. Which inequality shows how much money b the business will contribute?

    A $\frac{1}{2}(870) \leq b$

    B $870 \leq \frac{1}{2}b$

    C $\frac{1}{2}(870) \geq b$

Name _____ Date _____ Class _____

Problem Solving
Solving One-Step Inequalities by Adding or Subtracting

Write the correct answer.

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Solution:

Let h = hours of TV she has left

$4 + h \le 10$

$h \le 6$

2. Wayne's homework is to answer at least 20 questions from his textbook. So far, he has finished 9 of them. Write, solve, and graph an inequality to show how many more problems Wayne must do.

Let ____**q**____ = number of questions left to answer

____**q + 9**____ ≥ 2

____**q**____ $\ge$ ____**11**____

The table below shows how much money each class has raised for charity so far. Use this information to answer questions 3–5.

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