Warm Up

1. Mr. Wharton's cable company charges him $85.50 per month plus $4.99 per movie rental On-Demand. If his bill was $110.45 last month, how many movies did Mr. Wharton rent? WRITE AND SOLVE the equation.

2. $\dfrac{-4}{5}(n + 5) \le 20$

Name: _____   Date: _____   Block: ____
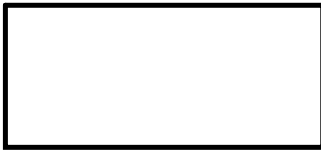
Summative 6 Review

Name: _____ Date: _____ Block: _____

SUMMATIVE 6 REVIEW

1. Solve the inequality. Show your work.

$$16 - 4x > 64$$

2. The width of a rectangle is 5 times its length. The perimeter of the rectangle is 108 feet. Find the dimensions of the rectangle. Show your work.

3. Solve the following equation. Show how you determined your answer.

$$-6(-4 + 2x) = 72$$

4. Solve the inequality. Show how you determined your answer.
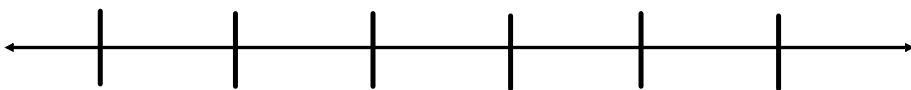
$$5x + 4(6 - x) \leq 60$$

Use the information for questions 5-7.

The 7th grade has already saved $40 for a field trip to Dorney Park. They need to raise at least $680 in order to pay for the trip. They decide to sell baseball caps to raise money. They earn $14 toward the trip for every baseball cap they sell.

5. Write the inequality that represents this situation. Solve

6. How many baseball caps must they sell to earn at least $680? Show how you determined your answer.

7. Graph your solution from #7 on the number line below.

8. Solve the equation. Show your work.

$$6x + 2.4 = 50.4$$

9. Solve the equation. Show your work.

$$\frac{1}{5}x - 4 = 10$$

10. Solve the equation. Show your work.

$$7\frac{1}{4} + 2x = 15\frac{1}{4}$$

11. Solve the inequality. Show your work.

$$10 - \frac{1}{8}x \geq 8$$

12. Ms. Reed sells mud pies to the students at the school dance. She spends $0.25 for ingredients for each pie and rents the pie making machine for $50. What is the minimum number of mud pies that Ms. Reed must sell at $1.85 each in order to make a profit?

13. **Malby weighs 20 more than twice the weight of Mr. T. Mr. T weighs *w* pounds.**

A. Write an equation to represent Malby's weight, *x*, in pounds.

B. If Mr. T weighs 180 pounds, how much does Malby weigh? Show your work.