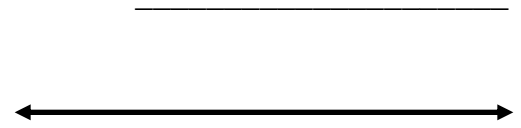NAME_____DATE_____PER._____

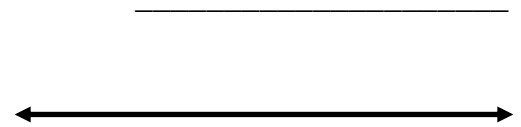**RETEST REVIEW: INEQUALITIES**

Solve each inequality and graph its solution.
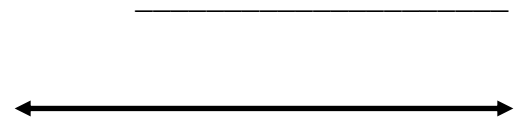
1. $x + 7 > 2$ _____   ⟵————————————————⟶
2. $-28 < 4x$ _____   ⟵————————————————⟶
3. $\dfrac{x}{-2} \geq 4$ _____   ⟵————————————————⟶
4. $-4(2 - x) < 8$ _____   ⟵————————————————⟶
5. $13 - 2x \geq 21$ _____   ⟵————————————————⟶
6. $5x - 9 < 2(x - 6)$ _____   ⟵————————————————⟶
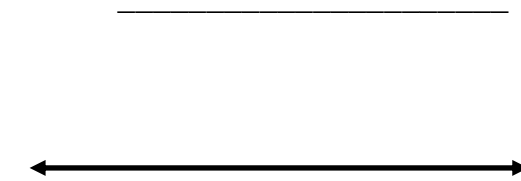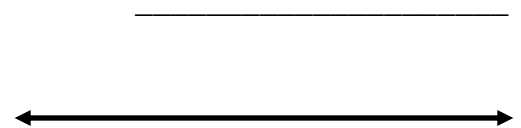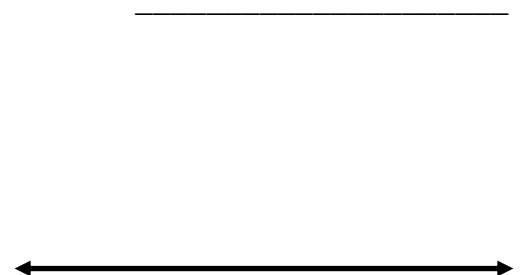
7. $-7 \leq 2x - 11$

_____

⟵———————————⟶
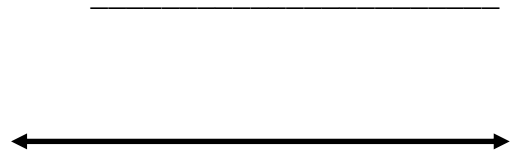
Write an inequality and solve.

8. The average of Peter's two test scores must be 80 or more for him to get at least a B in the class. He got a 72 on his first test. What grades can he get on the second test to make a B in the class?

_____

9. A principal is choosing between two field trips. The first cost $240 plus $40 per student. The second costs $600. For what number of students is the first trip more expensive than the second?

_____

10. Natalie and her sister opened a savings account at the same time. Natalie deposited $100 and will deposit $10 each month. Her sister deposited $25 and will deposit $25 each month. When will Natalie have less money in her account that her sister?

_____

Answers in random order: $x < -1$, $x > 5$, $x \leq -8$, $x > -5$, $x > 9$, $x \geq 88$, $x \geq 2$, $x \leq -4$, $x > -7$, $x < 4$