

Homework after Test 3**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

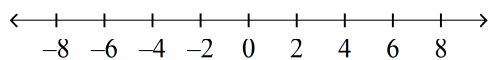
Solve the inequality.

- _____ 1. $12 + 10w \geq 8(w + 12)$
- a. $w \geq -42$ b. $w \geq 48$ c. $w \geq 42$ d. $w \geq 54$
- _____ 2. $12x - 3x + 11 > 4x - (17 - 9x)$
- a. $x > -7$ b. $x < 7$ c. $x < -\frac{14}{11}$ d. $x > -\frac{14}{11}$
- _____ 3. $11d - 9 \leq 15d + 3$
- a. $d^3 \frac{6}{13}$ b. $d^3 \frac{3}{13}$ c. $d^3 - 1\frac{1}{2}$ d. $d \geq -3$
- _____ 4. The French club is sponsoring a bake sale. If their goal is to raise at least \$140, how many pastries must they sell at \$3.50 each in order to meet that goal? Write and solve an inequality.
- a. $3.50p \geq 140; p \geq 490$ c. $3.50p \geq 140; p \geq 136.5$
 b. $140p \geq 3.50; p \geq 40$ d. $3.50p \geq 140; p \geq 40$
- _____ 5. Four times the sum of a number and 15 is at least 120. Let x represent the number. Find all possible values for x .
- a. $x \geq 26$ b. $x \geq -15$ c. $x \geq 15$ d. $x \geq -26$
- _____ 6. Twice a number decreased by five is at most eleven.. Let x represent the number. Find all possible values for x .
- a. $x \geq 3$ b. $x \leq 8$ c. $x \geq 8$ d. $x \leq 3$

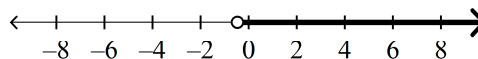
Solve the inequality. Graph the solution set.

_____ 7. $4(3b - 5) < -31 - 12b$

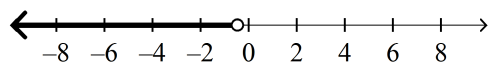
a. no solutions



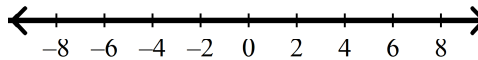
c. $b > -\frac{11}{24}$



b. $b < -\frac{11}{24}$



d. all real numbers

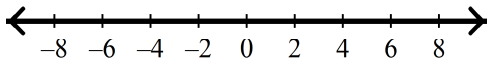


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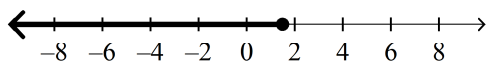
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_____ 8. $26 + 6b \geq 2(3b + 4)$

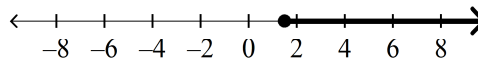
a. all real numbers



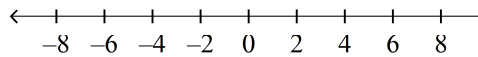
b. $b \leq 1\frac{1}{2}$



c. $b \geq 1\frac{1}{2}$



d. no solutions



Short Answer

Solve the inequality.

9. $3a + 3 - 6a > 15 - 2a$

10. $-1 \geq -9n - 8 + 4n$

11. $4.5s - 3.6 \leq 2.5s + 4.8$

12. $9 + 11c < 2(0.5c - 5)$