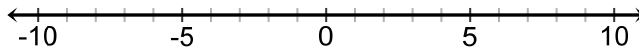




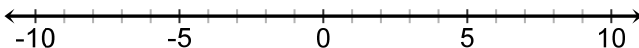
MULTI-STEP INEQUALITIES WORKSHEET #2

Solve each inequality and graph its solution.

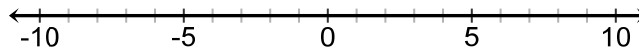
1. $1 + 4b - 5 \leq -16$



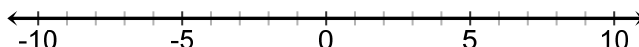
2. $-4 \geq x + 5 - 4x$



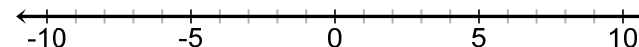
3. $-14 > 5(2m - 3) - m$



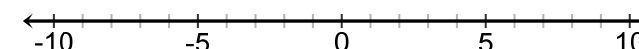
4. $4w - 6 \geq 6w - 20$



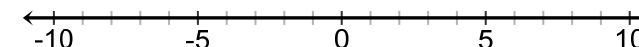
5. $-3 - 6(4x + 6) > -111$



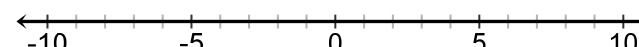
6. $-8x + 2x - 16 < -5x + 7x$



7. $3(1 - 2x) \geq 3 - 6x$



8. $-2(2 - 2x) - 4(x + 5) \leq -24$



Write and solve an inequality for the situation.

9. Jamal's scores on the first three of four 100-point English papers were 86, 92, and 89. What score does he need on his fourth paper to ensure an average score of at least 90?

10. The sum of twice a number and 12 is no less than 24.

11. Three fourths of a number increased by 4 is at most 19.

12. The sum of two consecutive positive odd integers is at most 7. What is the lesser integer?

13. A car rental agency charges Yolanda \$25.00 plus \$0.10 per mile that the car is driven. Yolanda wants to spend less than \$35.00 on the car rental. How many miles can she drive the rental car?

14. Nathan earns \$6.50 an hour, plus tips, as a waiter in a restaurant. Suppose he works 26 hours in a week. How much money in tips must he receive to earn at least \$229.00?

15. Ahmad is planning a trip to Hawaii. It will cost him \$400 to fly there and \$40 per night to stay in a motel. Ahmad wants to spend no more than \$720 on airfare and lodging. How many nights can he stay in Hawaii?