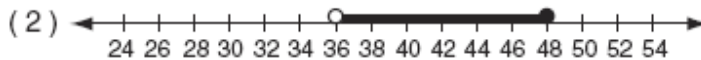
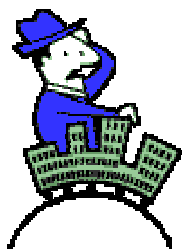


Worksheet 3.2-B- Solving Inequalities with one unknown
Inequality Word Problem Homework

Name _____

____1) In order to be admitted for a certain ride at an amusement park, a child must be greater than or equal to 36 inches tall and less than 48 inches tall. Which graph represents these conditions?



____2) Which statement is modeled by $2p + 5 < 11$?

- (1) The sum of 5 and 2 times p is at least 11.
- (2) Five added to the product of 2 and p is less than 11.
- (3) Two times p plus 5 is at most 11.
- (4) The product of 2 and p added to 5 is 11.



____3) Which is NOT a solution of the inequality $5 - 2x \geq -3$?

- (1) 0
- (2) 2
- (3) 4
- (4) 5

____4) Which statement can be modeled by $x + 3 \leq 12$?

- (1) Sam has 3 bottles of water. Together, Sam and Dave have at most 12 bottles of water.
- (2) Jennie sold 3 cookbooks. To earn a prize, Jennie must sell at least 12 cookbooks.
- (3) Peter has 2 baseball hats. Peter and his brothers have fewer than 12 baseball hats.
- (4) Kathy swam 3 laps in the pool this week. She must swim more than 12 laps.

- 5) The sum of a number and 81 is greater than the product of -3 and that number. What are the possible values for the number?
- 6) Four times a number is greater than -48 . What are the possible values for the number?
- 7) Three times a number increased by 8 is no more than the number decreased by 4. Find the number.
- 8) Two-thirds of a number plus 5 is greater than 12. Find the number.