

Inequalities Worksheet Homework

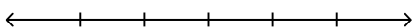
Multiple Choice

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

- _____ 1. The French club is sponsoring a bake sale. If their goal is to raise at least \$120, how many pastries must they sell at \$2.50 each in order to meet that goal? Write and solve an inequality.
- a. $2.50p \geq 120; p \geq 300$ c. $2.50p \geq 120; p \geq 48$
 b. $2.50p \geq 120; p \geq 117.5$ d. $120p \geq 2.50; p \geq 48$
- _____ 2. Suppose you had d dollars in your bank account. You spent \$6 but have at least \$62 left. How much money did you have initially? Write and solve an inequality that represents this situation.
- a. $d + 6 \geq 62; d \geq 74$ c. $d - 6 > 62; d > 68$
 b. $d - 6 \geq 62; d \geq 68$ d. $d + 6 \leq 62; d \leq 74$
- _____ 3. Your class hopes to collect at least 350 cans of food for the annual food drive. There were 138 cans donated the first week and 140 more the second week.
- a. Write an inequality that describes this situation. Let c represent the number of cans of food that must be collected by the end of the third week for your class to meet or surpass your goal.
 b. How many cans are needed to meet or surpass your goal?
- a. $138 + 140 + c \geq 350; c \leq 628$ c. $138 + 140 + c \geq 350; c \geq 72$
 b. $138 + 140 + 350 \geq c; c \geq 628$ d. $138 + 140 + c > 350; c > 72$
- _____ 4. Lev earns \$5.95 per hour working after school. He needs at least \$395 for a stereo system. Write and solve an inequality that describes how many hours he must work to reach his goal.
- a. $5.95x \geq 395$
 $x \geq 67$ hours
 b. $5.95x \geq 395$
 $x \geq 68$ hours
 c. $395 \div x \geq 5.95$
 $x \geq 66$ hours
 d. $x + 5.95 \geq 395$
 $x \geq 67$ hours

Short Answer

5. Jack can run a mile in less than 8 minutes. Write and graph an inequality to describe this statement.



6. Tina can type at least 70 words per minute. Write and graph an inequality to describe this statement.



Other

7. Brant makes \$7 an hour working at Hotdogville. He plans to buy a snowboard, which costs \$301. Write and solve an inequality describing at least how long Brant will have to work to be able to buy the snowboard.

Name: _____

ID: A

8. In order to collect a salary bonus, baseball player Tony Jones must get at least 220 hits this season. In the second to last week of the season, Tony started with 193 hits and got 21 more. Write and solve an inequality that describes how many hits Tony must get in the season's last week.
9. The members of the French club are sponsoring a bake sale. If their goal is to raise at least \$365, how many pastries must they sell at \$2.20 each in order to meet the goal? Write and solve an inequality.
10. The maximum weight allowed per car on The Wildcat carnival ride is 270 pounds. Your friend weighs 120 pounds. To be able to ride in a car together how much can you weigh? Write and solve an inequality.