



Word Problems Leading to Inequalities

Grade 7 Place Value Worksheet

Date: _____

Name: _____

SOLVE THE FOLLOWING WORD PROBLEMS

- Drake earns \$15 per hour dog walking. He wants to earn at least \$105 to buy a new bike. Which inequality represents how long Drake needs to work to afford his new bike?
a. $15h < 105$ b. $15h > 105$ c. $15h \leq 105$ d. $15h \geq 105$
- You must be no more than 96 inches tall to play on the playground. Which inequality represents the heights of kids allowed to play?
a. $k < 96$ b. $k > 96$ c. $k \leq 96$ d. $k \geq 96$
- Write an inequality: Twenty-two more than four times a number is less than 46
a. $22 + 4n < 46$ b. $22 + 4n > 46$ c. $22 + 4n \leq 46$ d. $46 + 22n \geq 4$
- Toby caught at least three times as many fish this year as he caught last year. He caught 63 fish this year. What is the fewest amount of fish he could have caught last year?
- Write the linear inequality in standard form for this situation: Sue is ordering pizzas and breadsticks for a school party and has a budget of no more than \$81. An order of breadsticks costs \$7 and a pizza costs \$13.
a. $7x + 13y < 81$ b. $7x + 13y > 81$ c. $7x + 13y \leq 81$ d. $7x + 13y \geq 81$
- Write the linear inequality in standard form for this situation: The Bristol science department can spend no more than \$2700 on textbooks this year. The department needs to buy both Biology text books, which cost \$57 each, and Chemistry textbooks, which cost \$72 each.
a. $57x + 72y < 2700$ b. $57x + 72y > 2700$ c. $57x + 72y \leq 2700$ d. $57x + 72y \geq 2700$
- Write the linear inequality in standard form for this situation: A landscaping business is purchasing plants from a nursery to finish a project. It will cost \$14 each to buy each tree and \$5 each to buy each bush. The landscaper wishes to keep the spending under \$1000.
a. $14x + 5y < 1000$ b. $14x + 5y > 1000$ c. $14x + 5y \leq 1000$ d. $14x + 5y \geq 1000$

8. Write the linear inequality in standard form for this situation: In order to raise money to attend upcoming competitions, the Math SAT team is selling apple cider and hot chocolate. They hope to make at least \$240 by selling hot chocolate for \$1 a glass and hot apple cider for \$2 a glass.
- a. $x + 2y < 240$ b. $x + 2y > 240$ c. $x + 2y \leq 240$ d. $x + 2y \geq 240$
9. Write the linear inequality in standard form for this situation: The manager of an electronics store projects that the store should achieve more than \$21,000 in revenue from TVs and DVD players every day in order to remain profitable. TVs sell for \$225 and DVD players sell for \$175.
- a. $225x + 175y < 21,000$ b. $225x + 175y > 21,000$ c. $225x + 175y \leq 21,000$
d. $225x + 175y \geq 21,000$
10. Victoria saved more than \$50. Which inequality represents the amount that she saved?
- a. $v < 50$ b. $v > 50$ c. $v \leq 50$ d. $v \geq 50$



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Answers

1. d
2. c
3. a
4. 21
5. c
6. c
7. c
8. d
9. b
10. b