



Word Problems Leading to Inequalities

Grade 7 Place Value Worksheet

SOLVE THE FOLLOWING WORD PROBLEMS

- What is the correct inequality for this statement? x is at most 30
a. $x < 30$ b. $x > 30$ c. $x \leq 30$ d. $x \geq 30$
- What is the correct inequality for this situation? $7x$ is at least 14
a. $7x < 14$ b. $7x > 14$ c. $7x \leq 14$ d. $7x \geq 14$
- What is the correct inequality for this word problem? 5 less than a number y is under 20
a. $5 - y < 20$ b. $y - 5 < 20$ c. $5 - y \leq 20$ d. $y - 5 \leq 20$
- Ann wants to spend at most \$8.50 on school supplies. She needs to purchase a binder costs \$6.89 and wants to spend the rest on pens, which cost \$0.59 each. Write an inequality involving the variable x to represents this situation, where x is the number of pens Ann can buy?
- Laurie needs to collect at least 1,000 signatures for a petition. She has 520 and wants to collect the same number each week. She has 6 more weeks. Which inequality represents this situation?
a. $520x + 6 \leq 1000$ b. $520 + 6x \geq 1000$ c. $520x + 6 \geq 1000$ d. $520 + 6x \leq 1000$
- Tracy has \$25 in her savings account. To save more money, Tracy is selling lemonade for \$0.50. How many cups of lemonade does Tracy need to sell to have more than \$150 in her savings account?
- Lia wants to spend under \$15 on lunch. She decides to buy pizza slices, which cost \$2.50 each and a two liter soda which costs \$1.75. What is the maximum number of pizza slices Lia can buy?
- Find the solution. The cost of a gallon of orange juice is \$3.50. What is the maximum number of containers you can buy for \$15?
- Abram works at a video game store Mon-Fri. He earns \$80 per day plus \$8 per video game sold. On Thursday, he makes at least \$176. Which solution represents the possible number of video games Abram sold?
a. $x \geq 12$ b. $x \geq 22$ c. $x \leq 12$ d. $x < 2$
- Cassie saved more than \$36. Which inequality represents the amount that she saved?



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Answers

1. c
2. d
3. b
4. $6.89 + 0.59x \leq 8.50$
5. b
6. 350
7. 7
8. 4
9. a
10. $x \geq 36$