



Word Problems Leading to Inequalities

Grade 7 Place Value Worksheet

Date: _____

Name: _____

SOLVE THE FOLLOWING WORD PROBLEMS

1. Joe is driving along a road with a 50 mph speed limit. He makes sure he is driving at or below the limit. Write an inequality involving the variable **j** to show how far he will have traveled in 3 hours.
2. Abel is skiing on a road with a 75 mph speed limit. She makes sure she is skiing at or above the limit. Write an inequality involving the variable **a** to show how far she will have skied in 4 hours.
3. A book has 10 chapters. The shortest chapter is 15 pages. Write an inequality involving the variable **b** to show how many pages the book has.
4. The world record for high jump is 2.45 meters. Tony thinks he can beat this. Write an inequality involving the variable **t** to show how many cm Tony needs to jump to break the record.
5. Ned goes shopping in Walmart with \$120. He comes out of the store with less than \$30 left. Write an inequality involving the variable **n** to show how much money he spent at Walmart.
6. Kate takes her cat for a walk each day. She always walks at least 2 miles. Write an inequality involving the variable **k** to show how far she walks her cat in a week.
7. Bob has a 1-liter bottle of water. He drinks less than $\frac{1}{4}$ of the bottle. Write an inequality involving the variable **b** to show how many milliliters are left in the bottle.
8. Jones spends at least 30% of his salary on food. Write an inequality involving the variable **j** to show the percentage of his salary which is left.
9. In a throwing contest, Fred throws the ball more than 20 yards. Newton throws twice as far as Fred. Write an inequality involving the variable **f** to show how far Newton throws the ball.
10. Water will freeze when the temperature is at or below $32^{\circ}F$. Write an inequality involving the variable **w** to show the temperature at which water will freeze.



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Answers

1. $j \leq 150$ miles
2. $a \geq 300$ miles
3. $b > 150$ pages
4. $t > 245$ cm
5. $n > \$90$
6. $k \geq 14$ miles
7. $b > 750$ ml
8. $j \leq 70\%$
9. $f > 40$ yards
10. $j \leq 32^\circ F$