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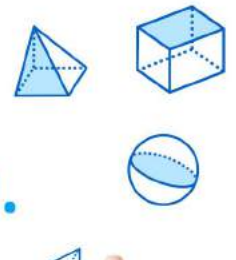

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Inequalities Word Problems Worksheets

Translate the following statements in questions 1-4 to an inequality expression

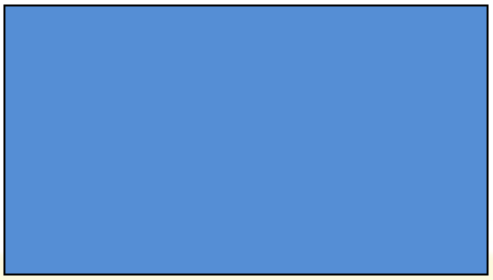
1) Seven times x plus 3 is less than 6
2) Three-eighths of the sum of y and 2 is greater than 5
3) One-eight multiplied by difference of t and 1 is at most 5
4) h times the quotient of 5 and 8 is at least 4

5) Adrian works in New York City and makes $42 per hour. She works in an office and must get her suit dry cleaned every day for $75. If she wants to make more than $260 a day, at least how many hours must she work?

6) The sum of two consecutive even integers is at most 400. Find the pair of integers with the greatest sum.

7) Ryan is a wrestler trying to make weight. He currently weighs 200 lbs. If he cuts 2 lbs. per week, how many weeks will it take him to weigh less than 175 lbs.?

8) The length of a rectangle is 5 cm less than twice its width. If the perimeter of the rectangle is no more than 70cm, what are the maximum possible dimensions?



9) Pet Supplies makes a profit of $5.50 per bag on its line of natural dog food. If the store wants to make a profit of no less than $5225, how many bags of dog food does it

10) Your local bank offers free checking for accounts with a balance of at least $500. Suppose you have a balance of $516.46 and you write a check for $31.96. How much do you need to deposit to avoid being charged a service fee?

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	$7(x + 3) < 5$
2)	$3/8(y + 2) > 5$
3)	$1/8(t - 1) \leq 5$
4)	$5h/8 \geq 4$
5)	At least 8 hours per day
6)	198, 200
7)	More than 12.5 weeks
8)	$W = 15$ $L = 25$
9)	At least 950 bags of dog food
10)	At least $\$15.50$

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FUN FACT

1. Inequality in math is when two solutions or answers are compared by greater than or less than.
2. Inequality is a mathematical statement that explains that the two values are not equal and are different.
3. When you divide or multiply an inequality with a negative number on both sides, the statement is false.