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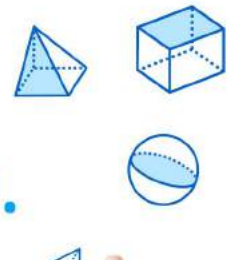

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Inequalities Word Problems Worksheets

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

1) Twice the sum of x and 3 is less than 5
2) Two-thirds of z plus 6 is greater than 5
3) One-fourth multiplied by sum of t and 9 is at most 9
4) Half of 7 added to product of h and 4 is at least 1

5) The quotient of a number and 5 is no greater than 450. What are the possible values for the number?

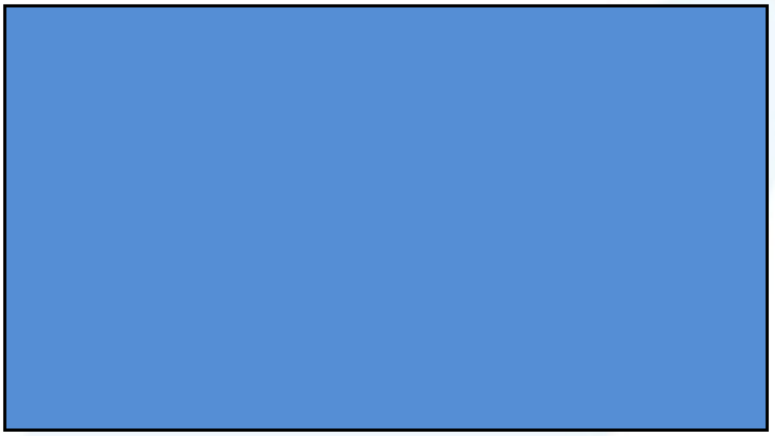
6) The Yellow Taxi Cab Co. charges a $2.75 flat rate and $.65 for each additional mile. Emma has no more than $14 to spend on a ride. How many miles can Emma ride without exceeding her spending limit?

7) Keith has $500 in a savings account at the beginning of the summer. He wants to have at least $200 at the end of the summer. He withdraws $25 per week for food, clothing, and movie tickets. How many weeks can Keith withdraw money from his account?

8) You want to rent a limousine for a trip to the city. The limo costs $700 for the night and $0.15 per mile.

You have $750 to spend. Write an inequality that represents this scenario. How many miles can the limo travel?

9) The length of a rectangle is 4cm longer than the width. The perimeter is no more than 28cm. What are the maximum possible dimensions for the rectangle?



10) Sara goes to Fredonia University. She has $900 in her savings account. She needs to buy a small laptop computer before the next semester. The laptop costs $600. Every 2 weeks she withdraws $60 from her savings account for food. How many times can Sara withdraw money for food? Write an inequality to explain.

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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)	$2(x + 3) < 5$
2)	$2z/3 + 6 > 5$
3)	$1/4(t + 9) \leq 9$
4)	$7/2 + 4h \geq 1$
5)	$x \leq 2250$
6)	17 miles
7)	No more than 12 weeks
8)	$m \leq 333.33$ miles
9)	$L = 9$ $W = 5$
10)	5 times or 300 dollars

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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.