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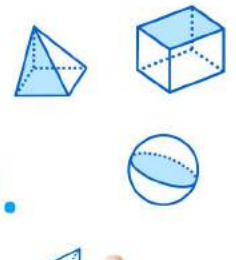

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Inequalities Word Problems Worksheets

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

1) Four times x plus 2 is less than 10
2) One-sixths of y minus 2 is greater than 2
3) Two-fifth multiplied by difference of t and 3 is at most 7
4) Quarter of 5 added to product of h and 6 is at least 9

5) The sum of two consecutive integers is less than 55. Find the pair of integers with the greatest sum.

6) Keith and Michelle went out to dinner. The total cost of the meal, including the tip, came to $53.70. If the combined tip came out to $9.60, and each friend spent an equal amount, how much did each friend pay not including the tip?

7) Charlie has $500 in a savings account at the beginning of the summer, but withdraws $25 each week to spend on meals at Duchess (his favorite). He wants to have at least $200 in the account at the end of the summer for the start of school. How many weeks can Charlie withdraw money from the account?

8) A taxi charges a flat rate of $1.75, plus an additional $0.65 per mile. If Erica has at most $10 to spend on the cab ride, how far could she travel?

9) Chris wants to order DVD's over the internet. Each DVD costs $15.99 and shipping the entire order costs $9.99. If he can spend no more than $100, how many DVD's could he buy?

10) Jessica is getting ready for college she needs to have an overall grade of 85 in her Math class to qualify for the college that she wished to attend. Her math grade is based solely on her scores on 6 exams. On the first 5 exams her scores were 87, 81, 85, 90, 78. Write an inequality that represents her predicament. What does score does she need to get on her last test to qualify?

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	$4x + 2 < 10$
2)	$1y/6 - 2 > 2$
3)	$2/5(t - 3) \leq 7$
4)	$5/4 + 6h \geq 9$
5)	26, 27
6)	$22.05
7)	No more than 12 weeks
8)	No more than 12.7 miles
9)	No more than 5 DVDs
10)	$X \geq 89$

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.