Cell Phones



A cell phone company charges $39.90 a month plus $0.05 per text message. Create an inequality that can be solved to find how many text messages (x) you can send while still keeping your monthly bill under $50.

Solve this inequality:

Movie Rentals



A video store has two rental programs. Program A is $25 for the membership fee and $1.25 for each rental. Program B is $40 for unlimited movie rentals. For what number of movie rentals is plan B less than plan A?

Solve this inequality:

Creating Inequalities from Word Problems

Student Council plaques



Student Council has $55 budgeted for service awards. They plan to buy a plaque for $19 and spend the rest on service pins. How many service pins can they purchase if each one costs $0.75?

Solve this inequality:

Crickets



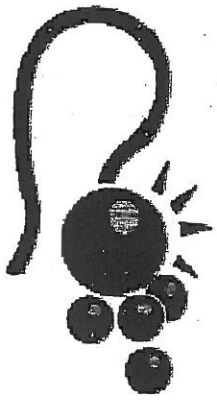
When the temperature is T degrees Fahrenheit, a certain type of tree cricket chirps about C times per minute, and $T = \frac{1}{4}C + 37$. Yesterday's temperature stayed below 90 degrees. How fast were crickets chirping?

Solve this inequality:

Name _____ Date _____

Word Problems Leading to Inequalities - Independent Practice Worksheet

Complete all the problems.



1. Julia has $80. She wants to purchase a nail paint set for $16 and earrings. She spends the rest of the money on earrings. Each pair of pair of earrings costs $8. Write an inequality for the number of pair of earning she can purchase.

3. Christina goes to the market with $50. She buys one papaya for $20 and spends rest of the money on bananas. Each banana cost $6. Write an inequality for the number of banana she can purchase.

5. Billy goes to the store. He has $90. He wants to purchase a leather jacket for $45, a hat for $10, and the rest on jeans. Each pair of jeans cost $35. Write an inequality for the number of jeans he can purchase.

7. Rebecca bought one gold fish ($32) and one star fish ($12). She spends the rest of her money on guppy fish. She starts with $80. Each guppy costs $6. Write an inequality for the number of guppies she can purchase.

8. Erin has $50. She wants to purchase a cell phone ($20) and spend the rest on music CDs. Each music CD costs $8. Write an inequality for the number of music CD she can purchase.

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Kuta Software - Infinite Algebra 1

Name_____

Two-Step Inequalities

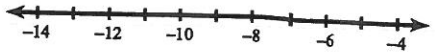
Date_____ Period____

Solve each inequality and graph its solution.

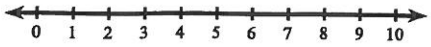
1) $2x + 4 \geq 24$



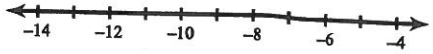
2) $\frac{m}{3} + 3 \leq -6$



3) $-3(p + 1) \leq -18$



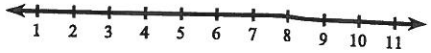
4) $-4(-4 + x) > 56$



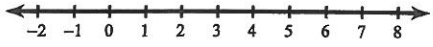
5) $-b + 2 > 8$



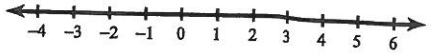
6) $-4(3 + n) > -32$



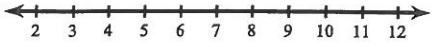
7) $4 + \frac{n}{3} < 6$



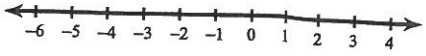
8) $-3(r + -4) \geq 0$



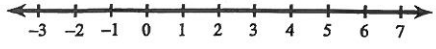
9) $-7x + 7 \leq -56$



10) $-3(p + -7) \geq 21$



11) $-11x + 4 > -15$



12) $\frac{-9 + a}{15} > 1$

