## WRITING AND SOLVING INEQUALITIES - Day 1

Write an inequality for each situation.

1. Three times the sum of a number and 4 is no $\quad$ 2. Twelve percent of a number increased by 12 less than 22. is at most 82.
2. -17 is more than the product of 5 and a number.

## Write an inequality and solve.

5. Garrett wants to save at least $\$ 350$ for his upcoming trip. He has saved $\$ 48.25$ already, and he has a job where he earns $\$ 8.50$ per hour. How many hours will he have to work to reach his goal?

Inequality: $\qquad$
6. You have $\$ 30$ to spend on movie tickets this month. You have already spent $\$ 15.75$. If each movie ticket costs $\$ 5.25$, how many more times can you go to the movies this month?

Inequality: $\qquad$
7. One cell phone company offers a plan that costs $\$ 29.99$ and includes unlimited nights and weekend minutes. Another phone company offers a plan that costs $\$ 19.99$ and charges $\$ 0.35$ per minute during nights and weekends. For what number of night and weekend minutes does the second company's plan cost more than the first company's plan?

Inequality: $\qquad$

Choose the best answer. SHOW ALL WORK!
8. Which statement is modeled by $2 p+5<11$ ?
A. The sum of 5 and 2 times a number $p$ is at least 11 .
B. Five added to the product of 2 and $p$ is less than 11 .
C. Two times $p$ plus 5 is at most 11 .
D. The product of 2 and $p$ increased by 5 is 11 .
9. Which is NOT a solution of the inequality $33-3 \mathrm{~h} \leq-18$ ?
A. 17
B. 21
C. 15
D. 45
10. Which is NOT a solution of the inequality $-12 \geq-4 x-8$ ?
A. -5
B. 2
C. 7
D. 10

Answers in random order (except for \#1-4): A, B, C, $x \geq 29, \quad x \geq 35.5, \quad x \leq 2$

