

Review Sheet		
1) $-9 + 2x < 3x$	2) $3x + 6 \ge 4x$	3) Write an inequality to represent: Ten is no more than four less than a number.
 4) Graph the following: x > 3 or x ≤ -2 	5) Graph the following: -2 < x ≤ 1	 6) Translate the verbal expression into an algebraic inequality, solve an graph your answer: The sum of twice a number and 5 is at most 3 less than a number.

Represent each of the following as an algebraic inequality.

- 1) x is <u>at most</u> 30
- 2) the sum of 5x and 2x is at least 14
- 3) the product of x and y is less than or equal to 4
- 4) 5 less than a number y is <u>under</u> 20

1st: Read carefully and <u>underline key words</u> 2nd: Write a let statement 3rd: Determine whether to use =, <, \leq , >, or \geq

4th: Write and solve the inequality



5) If 5 times a number is increased by 4, the result is at least 19. Find the least possible number that satisfies these conditions.

6) The sum of twice a number and 5 is at most 15. What are the possible values for the number?

7) The Amigo Company opened a new branch in Aylmer. Their staff consists of: 20 Regular employees, a Manager, an Assistant Manager, and a Supervisor. The weekly salary of the Manager is \$200 less than twice that of one Regular employee. The Assistant Manager and Supervisor, each makes \$200 more a week than one Regular employee. The combined weekly salaries of all the staff is equal to \$600 more than 14 times the Manager's weekly salary.

What is the weekly salary of a regular employee? Show all your work neatly.