$\qquad$ Date: $\qquad$


|  | Review Sheet |  |
| :---: | :---: | :---: |
| 1) $-9+2 \mathrm{x}<3 \mathrm{x}$ | 2) $3 \mathrm{x}+6 \geq 4 \mathrm{x}$ |  |
| $\mathrm{m}>3$ or $\mathrm{x} \leq-2$ |  |  |\(\left.\quad \begin{array}{c}3) Write an inequality to \\

represent: Ten is no more than \\
four less than a number.\end{array}\right\}\)

Represent each of the following as an algebraic inequality.

1) $x$ is at most 30
2) the sum of $5 x$ and $2 x$ 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 under 20
$1^{\text {st: }}$ Read carefully and underline key words
$2^{\text {nd }}$ : Write a let statement
$3^{\text {rdd }}$ : Determine whether to use $=,<, \leq,>$, or $\geq$
$4^{\text {th }}$ : 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.

