

Name: \_\_\_\_\_

For each question, circle *all* which are correct.  
There may be more than one correct answer.

1.  $51n = \underline{\hspace{1cm}} (n^2)$

Answer: (a) and (d)

- (a)  $O$
- (b)  $\Omega$
- (c)  $\Theta$
- (d)  $o$
- (e)  $\omega$
- (f) None of the above (functions are not comparable)

2.  $n \lg(n^2) = \underline{\hspace{1cm}} (n \lg n)$

Answer: (a), (b), and (c)

- (a)  $O$
- (b)  $\Omega$
- (c)  $\Theta$
- (d)  $o$
- (e)  $\omega$
- (f) None of the above (functions are not comparable)