Complete each of the following exercises using your brain & pencil (B&P), your TI-86 (SGC), and MAPLE (CAS). In each case record your answers in the appropriate place.

	<u>B&P</u>	SGC	MAPL	LE Comments (good place to
include				notes on syntax)
1. 2 -	+ 6			
0 00				

2. 2(6+5)

			•		

3. $(1+5)^2 + 2$

- 1		1	

4. (13 - 3)/7

			•	
1	1	1	1	

5. $(8^2 - 3^3)(5 - 22)/(8 - 4^2)$

6 _____

1	1017!				
L					

! stands for factorial and is in the TI-86 CATALOG. You should place it into your custom catalog. This expression is the number of combinations of 27 objects choosing 10 at a time. It is also called the **binomial coefficient**. Do you know why?

8. 2	7 nCr 10 (from	TI-85 CATA	LOG)	
9. b				

10. 100 nCr 50

11.	binomial(100.5))):		
11.		<i>,</i>		
12.	2 + 1/3 + 1/4 + 2	2/5		
13.	(2/3)(6/7)			
1/	(2/3)/(6/7)			
17.				
15.	$(\sqrt{2})/3$ (sqrt()); from MAP	LE)	
16.	$\sqrt{\frac{1}{8}}$			
17	_1/3			
1/.	5			

Exercise: For the above problems as indicated below use the >**Frac** command from the TI-86 CATALOG to see if you can make the TI-86 answers agree with the MAPLE answers. Use the command **evalf** from MAPLE to see if you can make the MAPLE answers look like the TI-86 answers. Explain why you can not do this in

those instances when it doesn't seem to work.



Reflection: Look back over the above exercises. What are the main points that the author wants you to observe?