Name _____ **Date** _____

Period _____

Graphing Calculator Scavenger Hunt

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1. Press [2nd] [+] [ENTER] What is the ID# of your calculator? _____

2. For help, what website can you visit? _____

3. What happens to the screen when you push [2nd] [▲] over and over? [2nd] [▼] over and over?

_____

4. [^] is called the "caret" button, and is used to raise a number to a power. Find 6^5 = _____. To square a number use [x^2] What is 56^2? _____ To cube a number, press [MATH] and select option 3. What is 36^3? _____

5. Press [2nd] [Y=] to access the STAT PLOTS menu, how many stat plots are there? _____ Which option turns the stat plots off? _____

6. Press [STAT] which option will sort data in ascending order? What do you think will happen if option 3 is selected? _____

7. What letter of the alphabet is located above [÷] ? _____

8. To get the calculator to solve the following problem $2\{3 + 10/2 + 6^2 - (4 + 2)\}$, what do you do to get the { and } ? _____The answer to the problem is _____.

9. To solve a problem involving the area and/or circumference of a circle, which calculator key(s) would you most likely use? _____ (Hint: What color is the sun?)

10. Use your calculator to answer the following:

2 x 41.587 _____ 2578/4 _____ 369 + 578 _____

Now press [2nd] [ENTER] two times. What pops up on your screen? _____
Arrow down and change the 4 to a 2. What answer do you get? _____
How will this feature be helpful? _____

11. What happens when the [10^x] and [6] keys are pressed? _____

12. The [STO→] button stores numbers to variables. To evaluate the expression $\frac{2a+3b}{4-c}$, press [9] [STO→] [ALPHA] [MATH] [ENTER] to store the number 9 to A. Repeat this same process if B = 2 and C = 1, then evaluate the expression by typing in the expression $\frac{2a+3b}{4-c}$ and pressing [ENTER]. Is it faster just to substitute the values into the expression and solve the old-fashioned way with paper and pencil? _____
When might this feature come in handy?_____

13. Press [2nd] [0] to access the calculator's catalogue. Scroll up, to access symbols. What is the first symbol? _____ What is the last symbol? _____

14. Press [2nd] [0] to access the calculator's catalogue. An [A] appears in the top right corner of the screen. This means the calculator is in alphabetical mode. Press [)]. What is the 5th entry in the L's? What do these letters stand for? _____

15. Press [MATH], what do you think the first entry will do? _____
Now press [CLEAR], then press [0] [.] [5] [6] [MATH] and select option 1. What answer do you get? _____

16. Press [4] [MATH], choose option 5, then press [1] [6] and [ENTER]. What did this option do? _____

17. Which function allows you to send/receive data/programs? _____

18. Press [Y=] type in 2x – 1. Press [ZOOM] then select 6, press [MODE], arrow to the bottom and arrow over to G-T and press [ENTER]. Now press [GRAPH]. What appears on the screen? _____
Press [MODE] and scroll down to Full and press [ENTER] to restore to full screen.

19. Press [5] [÷] [÷] [9] [ENTER]. Press [2] to go to the error. The cursor should be blinking on the second /, press [DEL] [ENTER]. What answer did you get? To convert this number to a fraction, press [MATH] [ENTER]

20. Enter this problem into the calculator and press [ENTER]. 2.4 x 3.7 = _____.
Now press [MODE] [▼] Float [▶] to 0 and press [ENTER].
Now press [2nd] [Quit] to return to the home screen and press [2nd] [ENTER] and the original problem should appear on the screen, now press [ENTER]. What appears on the screen? _____ Think about this number in relation to the answer you got before.
What did the calculator do? _____
Repeat this same process except select 2 under the Float option. Return to the home screen, recall the original problem and press [ENTER]. What number appears on the screen? _____
What did the calculator do this time? _____

21. Enter $(-2)^2$ into the calculator, what answer did you get? _____Now enter -2^2 into the calculator, what answer did you get this time? _____Why do you think you got two different answers? _____Would $(-2)^3$ and -2^3 give you two different answers? Why or why not?_____