

TI-84 Plus Family Scavenger Hunt

skills in the boxes. Intro them already!) and hav	show you how to do one of the oduce yourself, (if you don't know the them demonstrate the skill to you where the skill is listed. Try to get as saible. 2. Evaluate the repeated fraction: $2 + \frac{1}{2 + \frac{1}{2}}$	 0. Evaluate ¹⁰/₃₇ + ⁴/₅₁ a. Give the decimal approximation. b. Give the fraction. 3. Calculate 10! Hint: [Math] might be useful
4. Solve to find the roots of $x^2 - 5x + 6 = 0$	 5. Show that (2,3) is a solution to the following system without actually solving it. x-3y=-7 2x+y=7 	 6a. Graph f(x) = 150000 - x². 6b. Change to a better Window in two different ways
 7a. Graph the function f(x) = 3x² - 5. 7b. Use the trace feature to find several points on the graph. 	8. Graph an equation that crosses the x-axis 2 or 3 times.	9. Changing only the parenthesis, make the following evaluate to -17. Verify with your calculator. (3+5)*2-15*(8-4)
10. Solve the following system in two different ways. $2x + 7y = 5$ $x + 3y = 3$.	11. Graph $y = \frac{30}{x}$ Switch to the table view. Use the table to find 3 points on the graph.	12. Evaluate ³ √75
13. Evaluate 3 ^{5/2}	14. Graph y = x -2 Hint: [Math] will be involved	15. Create a graph similar to:
16. Create a program (TI-Basic or *Python) that prints "Hello World" on the screen. *Only available on TI-84 Plus CE Python	17. Five pumpkins weigh 1, 1.5, 2, 2.7, and 3 lbs. What is the average weight?	18. Graph y = 3x ² . Show/Explain the difference between [zoom] standard and [zoom] fit.



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TEACHER TIP SHEET

This activity is great for early in the year, and can be an ice-breaker in a new classroom, where all students may not know each other. The format can be modified and could be 2-3 students working together, or even as a solo assignment, if some students are virtual. Virtual students could also volunteer to teach a skill to the class.

- 0. Evaluate $\frac{10}{37} + \frac{4}{51}$
 - Give decimal approximation.
 - Give the fraction.

[math] > ► Fraction or [alpha] [y=]

1. Find the greatest common divisor of 2100, and 2205.

[math] > Num > gcd(

2. Evaluate the repeated fraction:

3. Calculate 10!

yields a [math] > Prob > !fraction use repeatedly or [alpha][window][9]

4a. Solve to find the roots of roots of $x^2 - 5x + 6 = 0$ Answer may vary. Graph find x-intercepts Graph look at a table Guess and check using calculations

5. Show that (2,3) is a solution to the following system without actually solving

x - 3y = -72(2)+3 2x + y = 7

6a. Graph $f(x) = 150000 - x^2$

6b. Change to a better Window in two different ways [zoom] fit

[window] change constraints substitution

7a. Graph the function $f(x) = 3x^2 - 5.$

7b. Use the trace feature to find several points on the graph.

8. Graph an equation that crosses the x-axis 2 or 3 times.

9. Changing only the parenthesis, make the following evaluate to -17. Verify with your calculator. (3+5)*2-15*(8-4)

3+(5*2-15)*(8-4)

10. Solve the following system in two different ways. 2x + 7y = 5

x + 3y = 3.

11. Graph y = $\frac{30}{x}$ Switch to the table view. Use the table to find 3 points on the graph.

12. Evaluate $\sqrt[3]{75}$

[math]

[alpha][window]

13. Evaluate 3^{5/2}

^ for exponent

14. Graph y = |x - 2|

[alpha][window] useful too

[alpha] [graph]

||is abs() [math] > Num Or [alpha][window]

15. Create a graph similar to:



Arrow over , press enter



■NY1**目**5X-3■

16. Create a program (TI-Basic or *Python) that prints "Hello World" on the screen.

*Only available on TI-84 Plus CE Python

17. Five pumpkins weigh 1, 1.5, 2, 2.7, and 3 lbs. What is the average weight?

18. Graph $y = 3x^2$. Show/Explain the difference between [zoom] standard and [zoom] fit.