

## Focus Activity: Graphing Calculator Scavenger Hunt

1. Press  $2^{\text{nd}}$  + ENTER What is the ID# of your calculator?

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2. For help, what website can you visit? \_\_\_\_\_

3. What happens to the screen when you push  $2^{\text{nd}}$   $\blacktriangle$  over and over?  $2^{\text{nd}}$   $\blacktriangledown$  over and over?

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4.  $\wedge$  is called the "carat" button, and is used to raise a number to a power.

Find  $6^5 =$  \_\_\_\_\_.

Find  $4^6 =$  \_\_\_\_\_.

To square a number use  $x^2$ .

What is  $56^2$ ? \_\_\_\_\_

What is  $24^2$ ? \_\_\_\_\_

To cube a number, press MATH and select option 3.

What is  $36^3$ ? \_\_\_\_\_

What is  $8^3$ ? \_\_\_\_\_

5. What CAPITAL letter of the alphabet is located above  $\div$ ? \_\_\_\_\_

6. 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 \_\_\_\_\_.

\*HINT: Type the problem exactly how it is written.\*

7. The answer to  $4 + \{(4 + 1) - 3\} - 6/3$  is \_\_\_\_\_.

8. 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?)

9. Use your calculator to answer the following:

$2 \times 41.587$  \_\_\_\_\_

$369 + 578$  \_\_\_\_\_

$2578/4$  \_\_\_\_\_

Now press  $2^{\text{nd}}$  ENTER two times. What pops up on your screen?

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Arrow down and change the 4 to a 2. What answer do you get? \_\_\_\_\_

How will this feature be helpful?

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10. Press  $2^{\text{nd}}$   $x^2$ . What symbol do you see on the screen? \_\_\_\_\_

$\sqrt{25} =$  \_\_\_\_\_

$\sqrt{121} =$  \_\_\_\_\_

$\sqrt{625} =$  \_\_\_\_\_

11. What happens when the  $10^x$  and  $6$  keys are pressed? \_\_\_\_\_

12. The  $\text{STO} \rightarrow$  button stores numbers to variables. To evaluate the expression  $\frac{2a+3b}{4-c}$ , press  $9$   $\text{STO} \rightarrow$   $\text{ALPHA}$   $\text{MATH}$   $\text{ENTER}$  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  $\text{ENTER}$ . 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?

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13. Press  $2^{\text{nd}}$   $0$  to access the calculator's catalogue. Scroll up, to access symbols. What is the first symbol? \_\_\_\_\_ What is the last symbol? \_\_\_\_\_

14. Press  $\text{MATH}$ , what do you think the first entry will do?

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Now press  $\text{CLEAR}$ , then press  $0$   $.$   $5$   $6$   $\text{MATH}$  and select option 1. What answer do you get? \_\_\_\_\_

15. Press  $5$   $\div$   $\div$   $9$   $\text{ENTER}$ . Press  $2$  to go to the error. The cursor should be blinking on the second  $/$ , press  $\text{DEL}$   $\text{ENTER}$ . What answer did you get? To convert this number to a fraction, press  $\text{MATH}$   $\text{ENTER}$