

Key

Focus Activity: Graphing Calculator Scavenger Hunt

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

2. For help, what website can you visit? education.4.com

3. What happens to the screen when you push 2^{nd} ▲ over and over? 2^{nd} ▼ over and over?

screen gets darker; screen gets lighter

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

Find $6^5 =$ 7776

Find $4^6 =$ 4096.

To square a number use x^2 .

What is 56^2 ? 3136

What is 24^2 ? 576

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

What is 36^3 ? 46656

What is 8^3 ? 512

5. What CAPITAL letter of the alphabet is located above ÷? M

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 }? 2^{nd} [] The answer to the problem is 76.

HINT: Type the problem exactly how it is written.

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

8. To solve a problem involving the area and/or circumference of a circle, which calculator key(s) would you most likely use?

2^{nd} [^] (Hint: What color is the sun?)

9. Use your calculator to answer the following:

2×41.587 83.174

$369 + 578$ 947

$2578/4$ 644.5

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

2578/4

Arrow down and change the 4 to a 2. What answer do you get? 1289

How will this feature be helpful?

Reuse a previous equation

10. Press 2^{nd} x^2 . What symbol do you see on the screen? √

$\sqrt{25} =$ 5

$\sqrt{121} =$ 11

$\sqrt{625} =$ 25

11. What happens when the 10^x and 6 keys are pressed? 1,000,000

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

When might this feature come in handy?

When you have a lot of problems that use the same variable substitutions.

13. Press 2^{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 MATH , what do you think the first entry will do?

Turn a number into a fraction

Now press CLEAR , then press 0 $.$ 5 6 MATH and select option 1.

What answer do you get? 14/25

15. Press 5 \div \div 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

.5555... ; $\frac{5}{9}$