## What do you need to know about the TI-30XS calculator?

The math section of the GED is divided into two sections. You can not use a calculator for the first section, which is 5 questions. You can use a calculator for the second section. Even in the section where the calculator is allowed, you won't need it for many of the questions. You can use a calculator for the Math, Science, and Social Studies sections of the GED. However, it is important that you are comfortable with the calculator so that it can be used as a support in the calculator-allowed section of the test.

Some things test takers should know about the calculator:


| - To erase screen: <br> - Use the arrow keys to mo calculations: <br> - Basic arithmetic operatio <br> - The difference between the Negative sign: Subtraction: <br> - Convert from fraction to | the cursor. This includes <br> (multiplication, division, negative number key and <br> cimal: | ving up to previous <br> dition, subtraction). e subtraction key. |
| :---: | :---: | :---: |
| Practice: |  |  |
| a. What fraction is equivalent to 0.875 ? <br> b. What is -344 divided by 4 ? | c. What is - 24 times 3 ? <br> d. Which is smaller, $\frac{7}{9}$ or 0.875 ? | e. What is the difference between the coldest temperature you've ever experienced and the hottest temperature you've experienced? |

## Exponents

- Taking a number to the 2nd power (squaring) can be done with the $x^{2}$ key. First press the number you want to square and then press $x^{2}$.

For example:
To find $13^{2}$, you would press 13 and then $x^{2}$

- To raise numbers to other exponents (higher than the second power), first press the base number, then $\sim$ and then the exponent. For example:

To find $2^{6}$, press 2 , then $\sim$, then 6 .

## Practice:

a. $17^{2}=$
b. $7^{4}=$
c. Which is bigger, $2^{3}$ or $3^{2}$ ?
d. Put these in size order: $2^{6} 4^{3} 8^{2}$
e. Which is greater, $6^{5}$ or $5^{6}$ ?

You will notice that some buttons have words or symbols above them in green. You can use these functions by pressing the $2 n d$ button.

For example, to turn off calculator: Press


## Roots

For example:


Note: The GED is limited to square roots ("to the 2 nd power") and cube roots ("to the 3 rd power").

Practice:
a. What is the square root of 961 ?
b. What number times itself equals 784 ?
c. What is the cube root of 1728 ?

Decide if each of the next three statements is True or False. If False, rewrite the statement so that it is true:
d. The square root of 16 is 256 .
e. The cube root of 9 is 3 .
f. The cube root of 343 is larger than the square root of 49 .

## Useful, but not necessary:

- Creating in-out tables from functions $(y=2 x+1$, for example):

- To enter a fraction into the calculator, press , then the numerator, then the


Don't worry too much about this. It is better to focus on understanding fractions, rather than how to calculate them with this particular calculator.

- Holding on and hitting clear will empty memory:

- Convert number to percent:

- Scientific notation:


## $\times 10^{n}$

## Some things you do not need to know for the test:

- Logarithms
- Trigonometry (sin, cos, tan)
- Pretty much all of the other buttons.


## Additional Resources:

- GED Tutorial on using the virtual TI-30XS:
https://ged.com/practice-test/en/calculator/
- GED Calculator Reference Sheet:
https://ged.com/wp-content/uploads/calculator sheet.pdf


