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

- The calculator is not needed for many items on the current TASC. In fact more than half of the problems on the current math section do not require calculation. However, it is important that students are comfortable with the calculator so that it can be used as a support in the calculator-allowed section of the test. Most students will need regular practice to become comfortable - a one-day practice session is probably no $\dagger$ enough. We recommend that students use these calculators regularly in class, when it is in service of learning mathematical concepts. Of course, they should
 also have regular practice doing computation and estimation without a calculator, as this is a skill necessary for the test.


## Some things test takers should know about the calculator:

- Use
- To erase screen:
- Use the arrow keys to move the cursor. This includes moving up to previous calculations:

- Basic arithmetic operations (multiplication, division, addition, subtraction).
- The difference between the negative number key and the subtraction key.
- Negative sign: (-)

- Convert from fraction to decimal:



## Practice:

a. What fraction is equivalent to 0.875 ?
b. What is -344 divided by 4?
c. What is -24 times 3 ?
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

- Squaring a number can be done with the $x^{2}$ key. First press the number you want to square and then press $x^{2}$.

For example:

## $x^{2}$

To find $13^{2}$, you would press 13 and then


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

To find $2^{6}$, press 2 , then

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

You will notice that some buttons have words or symbols above them in green. You

For example, to turn off calculator:

2nd
Press and then


## Roots



For example:


Note: The TASC is limited to square roots and cube roots.

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

For d-f, decide if the statement 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 down arrow
 then the denominator, then the right arrow


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:



## clear

- Holding on and hiting clearwil empty memory:

- Convert number to percent:
- Scientific notation:


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

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


## Additional Resources:

- TASC test page on TI-30XS: http://www.tasctest.com/tasc-test-calculators-for-test-takers.html
- TI-30XS manual and teacher's guide: https://education.ti.com/guides


