TI-30SX CALCULATOR TRAINING

CENTRAL / SOUTHERN TIER RAEN JANUARY 2014 LINDA S. NESTOR INSTRUCTIONAL TECHNOLOGIST

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Solar Powered



TEXAS INSTRUMENTS TI - 30XS CALCULATOR



Key features

- > Four-line display
- > One- and two-variable statistics
- > MathPrint[™] feature
- > Fraction/decimal conversion
- > Step-by-step fraction simplification
- > Edit, cut and paste entries
- > Solar and battery powered

This calculator is accepted for use during the Test of Assessing Secondary Completion exam



TEXAS INSTRUMENTS TI - 30XS CALCULATOR

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TEXAS INSTRUMENTS TI - 30XS CALCULATOR

Button Over view

- On /Off button lower left
 APD automatic power down
- Scrolling wheel upper right
- Function keys grey keys
- Operations keys black keys
- Number keys white keys
- 2nd functions green key





White keys

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Change mode key

2nd Functions Press this key to change the function of the blue grey keys





Scroll wheel

The scroll wheel allows for movement within the equations on the screen, much as a mouse allows movement on a computer screen



Reset the calculators. This ensures that everyone starts in the same place.

- 1.Press 2nd and then [reset]- (reset is the 0 key)
- 2. Select 2 (for yes).
- 3. Try something simple:

1369 X 852 =

9873 - 987 =

753 ÷ 159 =



Did you get the right answers?

 $1369 \times 852 = 1,166,388$

9873 - 987 = 8,866

753 ÷ 159 =4.735849057

Once successful with the simple stuff,

try some calculator games to get used to using the machine.

http://www.dr-mikes-math-games-for-kids.com/calculator-games.html

NOW TRY THIS ONE

Make sure that the calculator is on – It has an automatic power down program.

Pick a number between 1 and 9.

Type that number into the calculator

- Multiply it by 9, and
- then multiply it by 12,345,679.

Be careful! Do not fall for the inattention trick! The answer is Easy. If you selected 5, the final answer is 555,555,555. OR If you selected 3, the final answer is 333,333,333.

The reason: 9 x 12345679 = 111111111. You multiplied your digit by 11111111.

Did you notice the trick?

Clear your display and reset the calculator (2nd and reset

The full practice is in the teacher's manual. Texas Instruments provides a free download at: http://education.ti.com/en/us/guidebook/details/en/62522EB25D284112819FDB8A46F90740/30x my tg

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Star Voyage — Scientific Notation Overview Students investigate scientific notation by changing numbers into scientific notation, and then using them in calculations. Math Concepts scientific notation
addition
division Materials • TI-30XS MultiViewTM • pencil student activity worksheet

- Have students change the following numbers into scientific notation (SCI) using the TI-30XS MultiView scientific calculator.
 - a. 12 000 000 *1.2 × 10⁷*
 - b. 974 000 000 *9.74* × 10⁸
 - c. 0.0000034 3.4 × 10⁻⁶
 - d. 0.00000004

- Follow these steps:
 - 1. Enter the first number, 12000000.
 - 2. Press mode .
 - Press

 enter clear enter to display the number in scientific notation.

1.2+10⁷

To try the next problem is simpler: Follow these steps:

4 x 10^{.9}

Enter the number, 974 000 000.
 Press enter to display the number in scientific notation.



USING NEGATIVE NUMBERS

Clear your memory with 2nd and reset. Then click on 2 for yes.

The temperature in Utah was -3° C at 6:00 a.m. By 10:00 a.m. the temperature had risen 12° C. What was the temperature at 10:00 a.m.?

	 Press	Display	
2	(−) 3 + 12 <mark>enter</mark>	-3+12 ^{beg} * 9	
	The temperature at 10:00 a.m. was 9° C.		



SQUARES AND SQUARE ROOTS

Use this formula to find the size of the tarpaulin needed to cover the entire baseball infield.

 $A = x^2 = 27.4^2$ square meters





SQUARES AND SQUARE ROOTS

Use this formula to find the length of the side of a square clubhouse if $3m^2$ of carpet would cover the floor. Round your answer to O decimal places.





SQUARES AND SQUARE ROOTS

If the volume of a cube is 125 cm^3 , what is the length of each side?







The length of each side is 5 cm.



quit

insert

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RESOURCES TO HELP STUDENTS PRACTICE The Guide for Teachers from Texas Instruments is an excellent resource to help teachers get started Video Resources: • 1. A tutorial series by Christopher Bolden & Matthew Lenz http://www.atomiclearning.com/ti30xs • 2. How to Use the TI-30XS Part 1http://www.youtube.com/watch?v=SJ_TwTvoEd4 • 3. Khan Academy - <u>https://www.khanacademy.org/</u> •4. Math.com - <u>http://www.math.com/</u>

RESOURCES TO HELP STUDENTS PRACTICE Books: 1. McGraw-Hill Education TASC (The Official Guide) ISBN-13: 978-0071823869 2. Kaplan New TASC® Strategies, Practice, and Review 2014 with 2 Practice Tests: Book + Online ISBN-13: 978-161865765

TASC TEST ASSESSING SECONDARY COMPLETION

•<u>Sample Math Questions:</u> http://www.ctbassessments.com/pdfs/ <u>TASC MathSampleTestItems.pdf</u>

