SAT RELEASED TEST ADMINISTERED ON APRIL 10, 2018

CLASSROOM SAT SESSION #3

Calculator Portion Released Test:

8.) The function g is defined as $g(x) = \frac{2x}{3} + 3$. What is the value of g(-30)?

- A.) -27
- B.) -23
- C.) -17
- D. -7

Press the Home Key

Select 1: New Document

Press Enter

Select 1: Add Calculator







There are 2 techniques to do this problem on the TI Nspire.

First Technique:

Since the problem states: What is the value of g(-30), then we want to store -30 as x.

Type in -30

Press the CTRL Key

Press the Var Key above the number 9

Type in an x

Press Enter.

Now when you press an x, the TI Nspire knows that value of the variable x is -30.

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-30 →x		
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-30 <i>→x</i>		-30
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▲ 1.1 ►	*Ųnsaved →	<[] ×
-30 <i>→x</i>		-30
2x + 2		
3		



√ 1.1 ▶	*Unsaved 🗢	N 🛛 🗙
-30 <i>→x</i>		-30
$\frac{2 \cdot x}{3}$ +3		-17
$\frac{2 \cdot -30}{3} + 3$		-17
I		

Now type the equation into the TI Nspire.

Press Enter.

Second Technique:

Instead of storing -30 for the variable x, just type in the number -30 for the x.

Don't forget to type the multiplication sign before you put in the -30.

Press Enter.

You get the answer of -17 using both techniques.

TI NSPIRE STEPS: STORING VALUES FOR VARIABLES

#5 From Released Test #7

5

Which of the following ordered pairs (x, y) satisfies the inequality 5x - 3y < 4?

- I. (1,1)
- II. (2,5)
- III. (3,2)
- A) I only
- B) II only
- C) I and II only
- D) I and III only

#6 From Released Test #7

6

In the equation $(ax + 3)^2 = 36$, *a* is a constant. If x = -3 is one solution to the equation, what is a possible value of *a* ?

- A) -11
- B) -5
- C) -1
- D) 0

1.) Classroom Session #1 uses question 6 on the calculator portion of the SAT test given on April 10, 2018

TI NSpire Calculator Skill: "Solving Linear Systems" on the TI Nspire

2.) Classroom Session #2 uses question 5 on the calculator portion of the SAT test given on April 10, 2018

TI NSpire Calculator Skill: Boolean Checking on the TI Nspire

3.) Classroom Session #2 uses question 8 on the calculator portion of the SAT test given on April 10, 2018

TI NSpire Calculator Skill: Storing values for variables on the TI Nspire