鲜 TExas
INSIRUMENTS

## TI- 73 EXPLORER $^{\text {TM }}$ $7^{\text {TH }}$ GRADE ACTIVITY 10: TABLE THAT EQUATION

## ACTIVITY OVERVIEW:

In this activity we will

- Use the table function to solve equations or approximate the answer

We want to solve the equation $10=2 X+5.5$ One way to do this is to use the table function for calculator equations. You might need to adjust the table settings to find your solution.

Press the \& key and enter these two expressions:
$2 x+5.5$ into $Y 1$ and 10 into Y2


Set the table setting by pressing - $\phi$ and using the up and down arrow keys to adjust your screen to look like the one at the right.


Press - 1 to bring up the table for the two equations. You are looking for a value in Y1 the will equal 10.

| X | $Y 1$ | $Y \Sigma$ |
| :---: | :---: | :---: |
| 0 | 5.5 | 10 |
| $\frac{1}{2}$ | 5 | 10 |
| $\frac{2}{3}$ | 1i.5 | 10 |
| 4 | 135 | 10 |
| 5 | 15.5 | 10 |
| 人= |  |  |


 | You can see that the value for 10 does not show up in |
| :--- |
| the list. You still have to adjust the table settings to |
| find an $x$ value that results in 10 . The result for the X |
| value of 2 is just smaller than 10 and 3 is too much. |
| Press- $\phi$ and set your screen like the one on the |
| right. |

Repeat the process of adjusting the table settings and then see if you have found the answer.

| Here are several problems to solve Try to solve them <br> by adjusting your table settings for each problem. <br> $-3 x-4=8$ (make sure to use the - sign just below <br> the 3 on the calculator keyboard. |  |
| :--- | :--- |
| $5 X+2=-10$ |  |

As you work on the problems, try to get more precise with you original table settings. Try to estimate what you expect as an answer before you set the table. The settings will remain from previous problems.

