

To divide 34 by 21 ( $\frac{34}{21}$ ):

Press	See Displayed
34	<b>34.</b> 34 is keyed into X.
<b>ENTER</b> $\blacktriangleright$	<b>34.00</b> 34 is entered into Y.
21	<b>21.</b> 21 writes over the 34 in X.
<b><math>\div</math></b>	<b>1.62</b> Answer.

### Arithmetic and the Stack

You've already learned how to enter numbers into the calculator and perform calculations with them. In each case you needed to position the numbers in the stack manually. However, the stack also performs many movements automatically. It's these automatic movements that give the stack its tremendous computing efficiency and ease of use. The stack automatically "lifts" every calculated answer in the stack when a new number is keyed in because it *knows* when it completes a calculation that any digits you key in are a part of a new number. For example, calculate  $16 + 30 + 11 + 17 = ?$

**Note:** For the purposes of the remaining examples, it is assumed that the stack is cleared of the previous problem. You can do this yourself by pressing **f** **[STK]**.

Press	Stack Contents	Comments
	T 0.00	
	Z 0.00	16 is keyed into the displayed X-register.
16	Y 0.00	
	X 16.	
	T 0.00	
	Z 0.00	16 is copied into Y.
<b>ENTER</b> $\blacktriangleright$	Y 16.00	
	X 16.00	

Press	Stack Contents	Comments
	T 0.00	
	Z 0.00	
30	Y 16.00	30 writes over the 16 in X.
	X 30.	
	T 0.00	
	Z 0.00	
<b>+</b>	Y 0.00	16 and 30 are added together. The answer, 46, is displayed.
	X 46.00	
	T 0.00	
	Z 0.00	
11	Y 46.00	11 is keyed into the displayed X-register. The 46 in the stack is automatically raised.
	X 11.	
	T 0.00	
	Z 0.00	
<b>+</b>	Y 0.00	46 and 11 are added together. The answer, 57, is displayed.
	X 57.00	
	T 0.00	
	Z 0.00	
17	Y 57.00	17 is keyed into the displayed X-register. 57 is automatically entered into Y.
	X 17.	
	T 0.00	
	Z 0.00	
<b>+</b>	Y 0.00	57 and 17 are added together for the final answer.
	X 74.00	