

A. Compare Condition

Mandy's Solution:	Erica's Solution:
$5(y+1) = 3(y+1) + 8$	$5(y+1) = 3(y+1) + 8$
$5y + 5 = 3y + 3 + 8$	$2(y+1) = 8$
$5y + 5 = 3y + 11$	$y + 1 = 4$
$2y + 5 = 11$	$y = 3$
$2y = 6$	
$y = 3$	

1. Mandy and Erica solved the problem differently, but they got the same answer. Why?
2. Why might you choose to use Erica's way?

B. Sequential Condition

Mandy's Solution:

$$\begin{aligned} 5(y+1) &= 3(y+1) + 8 \\ 5y + 5 &= 3y + 3 + 8 && \text{Distribute} \\ 5y + 5 &= 3y + 11 && \text{Combine} \\ 2y + 5 &= 11 && \text{Subtract on Both} \\ 2y &= 6 && \text{Subtract on Both} \\ y &= 3 && \text{Divide on Both} \end{aligned}$$

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1. Would you choose to use Mandy's way to solve problems like this? Why or why not?
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Erica's Solution:

$$\begin{aligned} 10(x+3) &= 6(x+3) + 16 \\ 4(x+3) &= 16 && \text{Subtract on Both} \\ x + 3 &= 4 && \text{Divide on Both} \\ x &= 1 && \text{Subtract on Both} \end{aligned}$$

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1. Check Erica's solution by substituting her answer into the equation. Did Erica get the right answer?