## Unit 4 Lesson 13 Cumulative Practice Problems

1. Mai and Tyler work on the equation $\frac{2}{5}b+1=-11$ together. Mai's solution is $b=-25$ and Tyler's is $b=-28$. Here is their work. Do you agree with their solutions? Explain or show your reasoning.
* Mai:
$\frac{2}{5}b+1=-11$
$\frac{2}{5}b=-10$
$b=-10⋅\frac{5}{2}$
$b=-25$
* Tyler:
$\frac{2}{5}b+1=-11$
$2b+1=-55$
$2b=-56$
$b=-28$
*
1. Solve $3(x−4)=12x$
2. Describe what is being done in each step while solving the equation.
	1. $2(-3x+4)=5x+2$
	2. $-6x+8=5x+2$
	3. $8=11x+2$
	4. $6=11x$
	5. $x=\frac{6}{11}$
3. Andre solved an equation, but when he checked his answer he saw his solution was incorrect. He knows he made a mistake, but he can’t find it. Where is Andre’s mistake and what is the solution to the equation?
* $\begin{matrix}-2(3x−5)&=4(x+3)+8\\-6x+10&=4x+12+8\\-6x+10&=4x+20\\10&=-2x+20\\-10&=-2x\\5&=x\end{matrix}$
*



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