

Lesson 13 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:	Tyler:
$\frac{2}{5}b + 1 = -11$	$\frac{2}{5}b + 1 = -11$
$\frac{2}{5}b = -10$	2b + 1 = -55
$b = -10 \cdot \frac{5}{2}$	2b = -56
b = -25	b = -28

2. Solve 3(x - 4) = 12x



3. Describe what is being done in each step while solving the equation.

a. 2(-3x + 4) = 5x + 2b. -6x + 8 = 5x + 2c. 8 = 11x + 2d. 6 = 11xe. $x = \frac{6}{11}$

- 4. 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?
- -2(3x 5) = 4(x + 3) + 8 -6x + 10 = 4x + 12 + 8 -6x + 10 = 4x + 20 10 = -2x + 20 -10 = -2x5 = x