

Assignment 4.2

Examples of what is expected / needed to get full marks (you have to show all steps)

Math	Algebra Tiles	Reasoning
$\begin{array}{r} -3m + 4 = 10 \\ -4 \quad -4 \end{array}$		<ul style="list-style-type: none"> -dividing by 3 would be a mess, we could but getting rid of 4 is better -so we subtract 4 from both sides with tiles we add the opposite, 4 neg -be sure to show the canceling
$\begin{array}{r} \cancel{+3}m = \frac{6}{\cancel{-3}} \end{array}$		<ul style="list-style-type: none"> -line up into groups of 3 the red version is wrong -now we circle one of the groups essentially dividing by 3 as long as equal -show the canceling (the neg. as well)
$m = -2$		<ul style="list-style-type: none"> -math we are done algebra we are not we need to add the opposite to both sides -I write flip but you might have to explain add the opposites to both sides -cancel the zero pairs
		<ul style="list-style-type: none"> -you need to show all these steps

Here are your questions (solve all with math completely, no using **flip use (-1)**)

- 1a. $2m + 3 = 15$
- b. $-2m + 3 = 15$
- c. $-2m - 3 = 15$
- d. $-2m - 3 = -15$
- e. $3 - 2p = -17$

2. Solve by both methods - math and tiles (please ensure you get the same answer)

- a. $-2p + 6 = 10$
- b. $-3p + 1 = -11$