Block: *Algebra I Week 2*

Day 1	Day 2
$5x + 3 - 2x + 4$	Simplify $\sqrt{25}$
-7(4x − 6)	Simplify $\sqrt{81}$
$5x(3x - 4)$	Simplify $\sqrt{144}$
$3(4x - 1) - 4(2x + 5)$	Simplify $\sqrt{x^2}$
$4x(3x + 4) + 3(3x + 4)$	Simplify $\sqrt{36x^6}$

Perfect Squares
0 36 121
1 49 144
4 64
9 81
16 100
25

$\sqrt{25} = 5$

$\sqrt{81} = 9$

$\sqrt{144} = 12$

$\sqrt{25}$
$\sqrt{5 \cdot 5}$
$= 5$

$\sqrt{x^2} = \sqrt{x \cdot x}$
$= x$
divide power/exp by 2
even exponents are perfect squares
$\sqrt{x^{26}} = x^{13}$

$\sqrt{36x^6}$
$= \sqrt{36} \cdot \sqrt{x^6}$
$= 6x^3$