Literal Equations Exploration

# Solve each equation for *x*.

| 1. $3x+5=17$
 |  | 1. $ax+b=c$
 |
| --- | --- | --- |
|  |  |  |
|  | Explain each step to isolate x |  |
|  | Were you able to simplify like terms? If so, which ones? |  |
|  | Give the solution in terms of $x=$ |  |

What would equation 2 equal if $a=3, b=5, $and $c=17$?

# Solve each equation for *x*.

| 1. $ \frac{x}{2}-4=8$
 |  | 1. $\frac{x}{a}-b=c$
 |
| --- | --- | --- |
|  |  |  |
|  | Explain each step to isolate x |  |
|  | Were you able to simplify like terms? If so, which ones? |  |
|  | Give the solution in terms of $x=$ |  |

What would equation 4 equal if $a=2, b=4, $and $c=8$?

What do you notice between the equations with just one variable and the equations with four variables?