Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Think**

Solve this system of equations. Pick any method you’d like (linear combination, substitution, or graphing) and explain why you choose this method.



Does your answer change if the second equation is: ? What method would you use if this was the second equation and why?

**Talk**

**Talk Idea**

**Talk Idea**

1. Linear combination:

* X-coefficient is 4, so you can rearrange the 2nd equation into standard form and multiply by (-1) and it’s easy to combine

1. Linear Combination

* Both in standard form, so just multiply 2nd equation by (-1) and then you can easily add them and get rid of y

1. Substitution:

* 2nd equation is y= form so I can use easily substitute that in for the y in the 1st equation

1. Substitution

* Change into y-intercept form and then it’s easy to substitute

1. Graphing:

* 1st equation- just find slope and y-intercept and graph
* 2nd equation is already in y-int form, so easy to graph

1. Graphing

* Standard form: just find slope and y-intercept and graph

We Understand

* You can solve systems using ANY method
* Some methods may be easier/faster to use