Activity Checklist

Day 1



Video With Guided Notes



☐ Practice — Levels 1-2

Day 2



Algonautin Simulation



☐ Activity: Practice Makes Progress



☐ Practice — Levels 3-4

Learning Objective:

I can solve equations with a variable term on both sides of the equal sign.

Necessary Skills:

Before starting this lesson, you need to be able to solve one- and two-step equations.

Which One Doesn't Belong?

Directions: There are no right or wrong answers in this activity. The goal is to choose which equation you think doesn't belong with the others and explain why! Mia and her friend have shared their answers, so be sure yours is unique.

А	В
3x + 5 = 23	$\frac{7 + 5h}{2} = 11$
5 + 3n = 2n + 8	-45 = 3k
С	D

I think D doesn't belong, because it's the only one with a negative number.

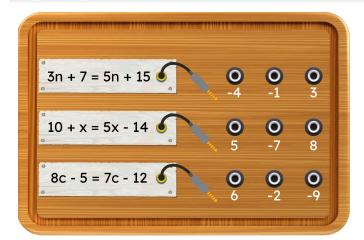


I think B doesn't belong, because it's the only equation where the variable doesn't have a coefficient of 3.





Video With Guided Notes

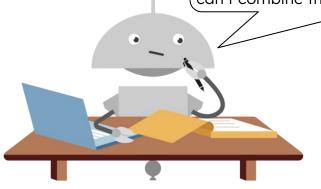




Why can't Bea just combine all of the n-terms on one side in 3n + 7 = 5n + 15? (Think about what happens on the balance scale!)

Solve 3n + 7 = 5n + 15.

I like to draw a vertical line through my equal sign when I solve equations. It helps me remember that I can't combine things across the equal sign.



$$3n + 7 = 5n + 15$$

In the way that works best for you, summarize how to approach equations when there is a variable term on both sides.

Example Problems

1)
$$10 + x = 5x - 14$$

2)
$$8c - 5 = 7c - 12$$



I wonder how these are going to end up leading Bea out of Mathlock Mansion!



How confident are you in your understanding of this lesson's objective?

I can solve equations with a variable term on both sides of the equal sign.

☐ I feel confident!(**)

☐ I feel so-so.



☐ I feel confused. (六)



Activity: Practice Makes Progress

Directions: Solve each of the following problems to practice working with equations that have variables on both sides of the equal sign.

1.	2.	
5d - 17 = d - 5		1

$$10 + 2k = k + 5$$

3.
$$6v - 30 = -6 + 4v$$

4.
$$11 + 4c = 2c - 9$$

5.
$$4w - 2 = 7w + 22$$

$$12 + r = 3r - 6$$

6.



Flip the page over to check your answers to this activity!

9 = 1	.9	8- = W	.5	O1-= 2	٦.
\(\text{1.2} \)	.δ	G− = Ŋ	Σ.	δ = b	Ţ.