

# Objective

TSW solve systems of linear equations by finding the unique solution using the following strategy...

\*Creating a table



A system of linear equations may have a unique solution. It can be solved using the elimination, substitution, or graphical methods.

### **Common Core State Standards**

8EE 8a Understand that solutions to a system...satisfy both equations simultaneously.

#### Mathematical Practices 2 Reason 3 Construct arguments 4 Model

**Mathematics** 

Lesson 5.1 Solving Systems of Linear Equations Using Tables How to Solve System of Linear Equation by making table. 1). Substitute Values for X 2). Input in Table of Values 3.) Find the Unique Solution (Same in both tables) Guided Practice page 194

Lionel is x years old and his younger brother is y years old. The difference in their ages is 1 year. The sum of 4 times Lionel's age and his brother's age is 14 years. The related system of linear equations is:

$$x - y = 1$$
$$4x + y = 14$$

Solve the system of linear equations by making tables of values. Then find Lionel's age and his brother's age.

-	x	2	3	4	 x	1	2	3
-	у				 у			

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	x	2	3	4	 x	1	2	3
-	у	1	2	3	 у	10	6	2

19 Carlos

Solve each system of linear equations by making tables of values. Each variable x is a positive integer less than 6.

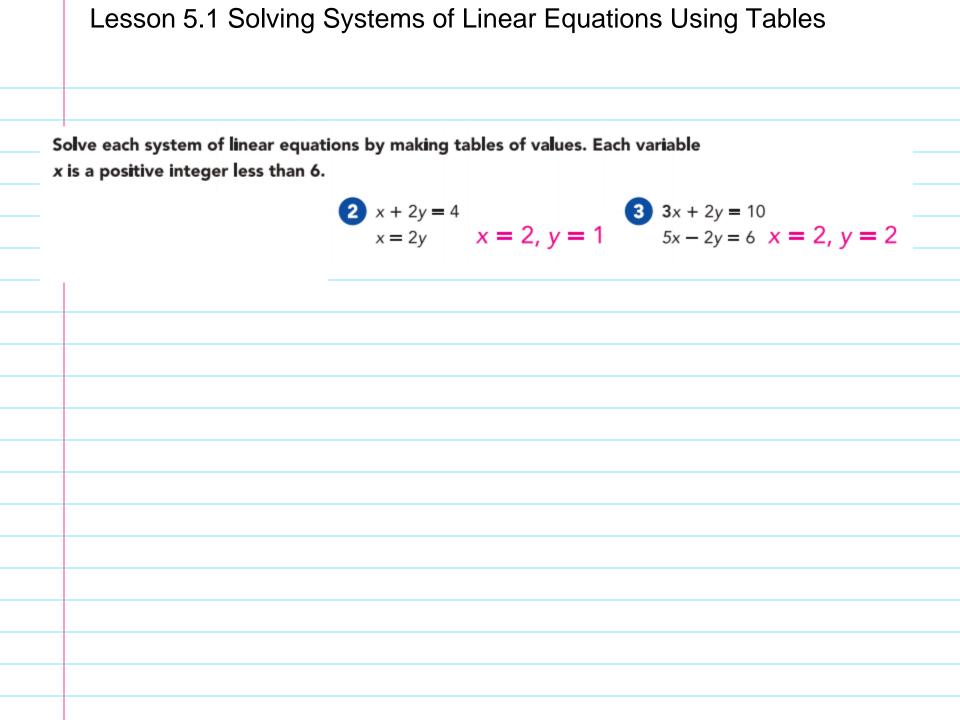
ABDA.

$$x + 2y = 4$$

$$x = 2y$$

$$3x + 2y = 10$$

$$5x - 2y = 6$$



Lesson 5.1 Solving Systems of Linear Equations Using Tables

Name: Practice 5.1 Solve each system of linear equations by making tables of values. Each variable x   a a positive integer less than 6. 2x + y = 5 x - y = -2 x = 2y 3x + 2y = 10 5x - 2y = 6			*Solve created equations "Pick a Snowflake"			
			*Create Word-toon for			
x - y = -2 $x - 2y = -5$ $x = y$	y = 2y $y = x = -2$ $x + y = 2$	5x - 2y = 6 $2x + y = 3$ $x + y = 1$		lary words		
$\bigotimes_{x + 2y = 1} x + 2y = 1$	2x - y = 5 $2x + y = -1$	$\bigotimes_{\substack{y + x = -1 \\ x + y = 1}} 2y + x = -1$		<u> </u>		
Solve by making a table	of values. The values x and y are int		Name	Wednesday Homework- Cumulative Review		
A shop sells a party hat at x dollars and a mask at y dollars. On a particular morning, 10 hats and 20 masks were sold for \$30. In the afterneon, 8 hets and 10 masks were sold for \$18. The related system of linear equations is:			Cumulative Review Chapters 3–4			
10x + 20y = 30 8x + 10y = 18		· · · · · · · · · · · · · · · · · · ·	Concepts and           Solve each equation.           ① 0.2(x + 2) - 2 =	Show your work. (Lesson 3.1)		
Alicia is x years old a	linear equations. Then find the cost of and her cousin is y years old. Alicia is 2 eir combined age will be 27 years. The	times as old as her cousin.	(a) $\frac{\pi}{2} + \frac{3+\pi}{6} = 3$	() $\frac{2(x+2)}{5} - \frac{x-1}{2} = 2$		
B Steve and Alex start d kilometers. Steve o the journey. Alex, wh	linear equations. Then find Alicia's age driving at the same time from Boston trives at 100 kilometers per hour and t to drives at 80 kilometers per hour, is <i>k</i> reaches Paterson. The related system	to Paterson. The journey is akes t hours to complete 50 kilometers away from	Express each decim S 0.5 2 0.27	al as a fraction, without the use of calculator. (Lesson 3.1) ( 0.8 ( 0.09		
Solve the system of i between Boston and	ineer equations by making tables of va Paterson.	Aues. Then find the distance		Cours 3		