

Objective

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

*Creating a table



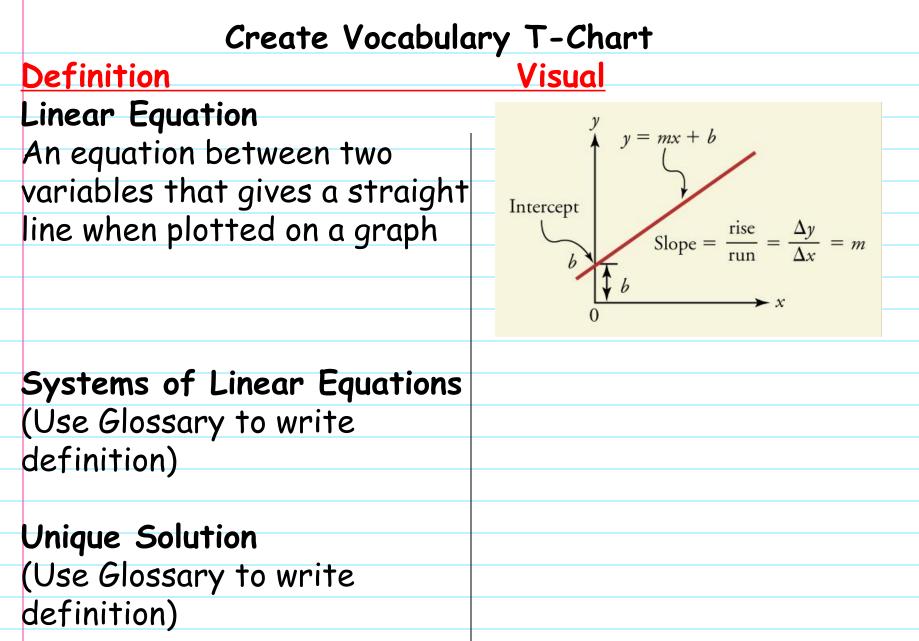
A system of linear equations may have a unique solution. It can be solved using the elimination, substitution, or graphical methods.

Common Core State Standards

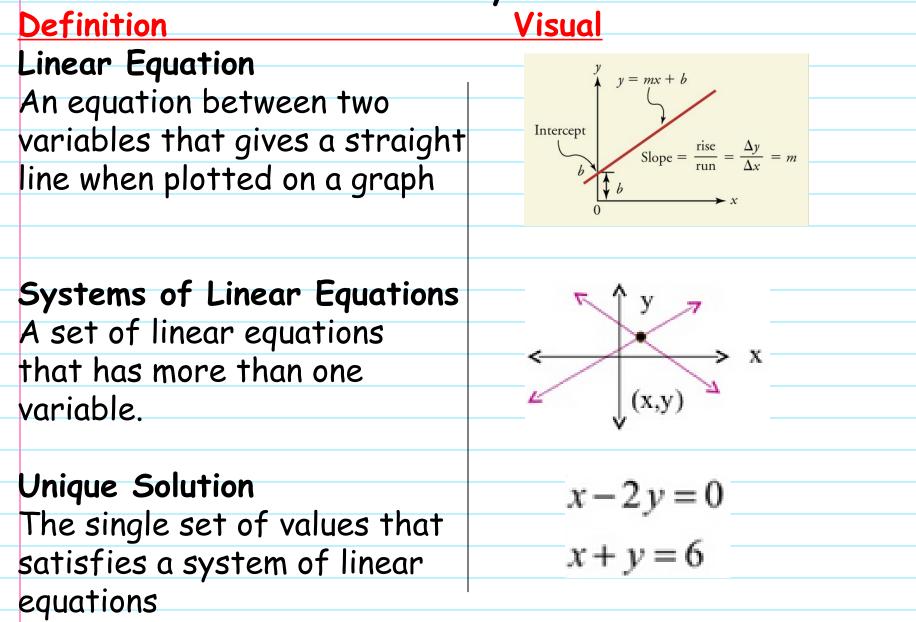
8EE 8a Understand that solutions to a system...satisfy both equations simultaneously.

Mathematical Practices 2 Reason 3 Construct arguments 4 Model

Mathematics



Create Vocabulary T-Chart



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

1 A bottle of water and a taco cost \$3. The cost of 3 bottles of water is \$1 more than the cost of a taco. Let x be the price of a bottle of water and y be the price of a taco in dollars. The related system of equations and tables of values are:

$$3x - y = 1$$

$$x + y = 3$$

$$x + y = 3$$

$$x + y = 3$$

$$y + y = 3$$

How to Solve System of Linear Equation by making table.

Solve for x
 Input in Table of Values
 Find the Unique Solution (Same in both tables)
 Guided Practice

A bottle of water and a taco cost \$3. The cost of 3 bottles of water is \$1 more than the cost of a taco. Let x be the price of a bottle of water and y be the price of a taco in dollars. The related system of equations and tables of values are:

х

y

2

$$3x - y = 1$$
$$x + y = 3$$

2

?

1

?

х

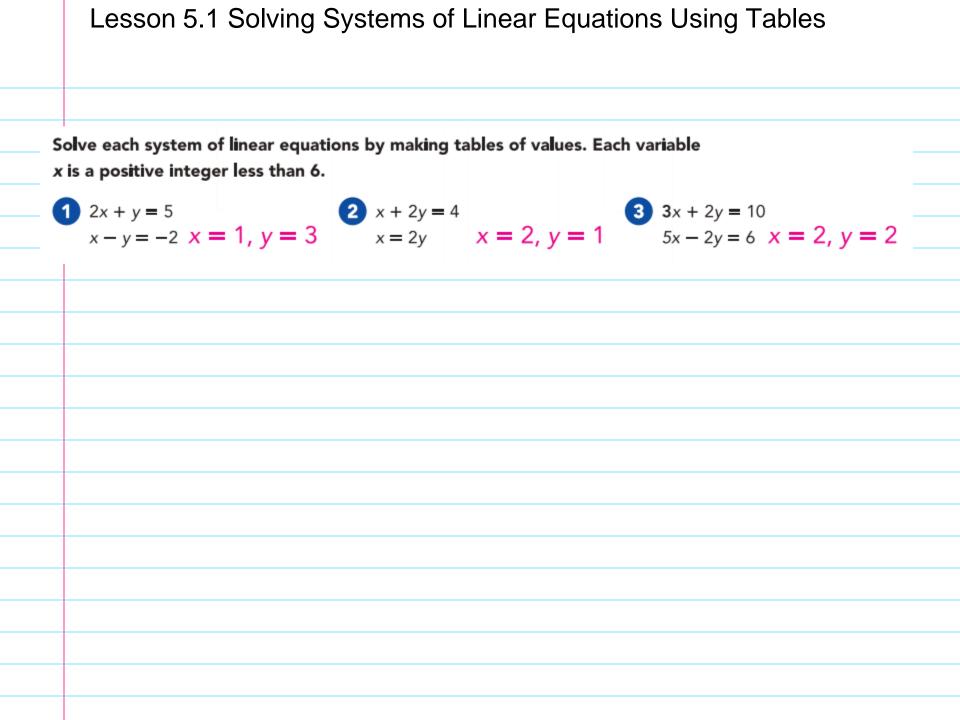
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Only the pair of values $x = \underline{?}$ and $y = \underline{?}$ appear in both tables. 1; 2 So, the solution to the system of equations is $x = \underline{?}$, $y = \underline{?}$. 1; 2

The cost of a bottle of water is \$_?_ and the cost of a taco is \$_?. 1; 2

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

0	2x + y = 5 x - y = -2	x + 2y = 4 x = 2y	3x + 2y = 10 - 5x - 2y = 6 - 5x - 2y = 6



Name :Date :Date :Solve each system of linear equations by making tables of values. Each variablex is a positive integer less than 6. $2x + y = 5$ $x - y = -2$ $3x + 2y = 10$ $5x - 2y = 6$ $2x + y = 5$ $x - 2y = -5$ $x = 2y$ $2y - x = -2$ $x + y = 2$ $3x + 2y = 10$ $5x - 2y = 6$ $2x - 2y = -5$ $x = y$ $2y - x = -2$ $x + y = 3$ $x + y = 1$ $2x + y = 3$ $x + y = 1$		Date :	*Solve created equations "Pick a Snowflake"
		(a) $3x + 2y = 10$ 5x - 2y = 6 (b) $2x + y = 3$	*Create Word-toon for vocabulary words
$\bigotimes_{x+2y=1}^{x+2y=1}$	2x - y = 5 2x + y = -1	$ \bigotimes 2y + x = -1 $ $ x + y = 1 $	
 A shop sells a party het 10 hats and 20 matks w sold for \$18. The related 10x + 20y = 30 Bx + 10y = 18 Solve the system of line. Alicia is x years old and 	values. The values x and y are into et x dellars and a mask at y dellars, are sold for \$30. In the afterneon, 8 3 system of linear equations is: ar equations. Then find the cost of of her cousin is y years old. Alicla is 2 ombined age will be 27 years. The	. On a particular morning, 3 hats and 10 mosks were each hat and each mask. times as old as her cousin.	wree Wedestry Hermson-Cumulative Review Cumulative Review Chapters 3-4 Concepts and Skills Solve each equation. Show your work. (Lesson 3.1) $0.2(x + 7) - 2 = 0.4$ $2(x - 5) - 3(3 - x) = \frac{1}{2}(x - 2)$ $3 = \frac{x + 3 + x}{c} = 3$ $2(x - 5) - 3(3 - x) = \frac{1}{2}(x - 2)$
Steve and Alex start driv d kilomaters. Steve driv the journey. Alex, who d Paterson when Steve res 100t = d' 80t = d - 60 Solve the system of linea	er equations. Then find Alicia's age se at the same time from Boston 1 se at 100 kilometers per hour and ti rives at 80 kilometers per hour, is 6 aches Paterson. The related system and the same second system ar equations by making tables of velocity ar equations by making tables of velocity are equations by tables are equations by tables of velocity are equations by tables are equated by tables are equations by tables are equated by ta	to Paterson. The journey is akes thours to complete 50 kilomaters away from of linear equations is:	Express each decimal as a fraction, without the use of calculator. (Lesson 3.1) ③ 0.5 ③ 0.8 ② 0.27 ③ 0.09
between Boston and Pat	erson.		