## Lesson 5.1 Solving Systems of Linear Equations Using Tables



## Lesson 5.1 Solving Systems of Linear Equations Using Tables



## Lesson 5.1 Solving Systems of Linear Equations Using Tables <br> Objective <br> TSW solve systems of <br> linear equations by finding <br> the unique solution using the following strategy... <br> *Creating a table <br> 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:
$x-y=1$
$4 x+y=14$
Solve the system of linear equations by making tables of values. Then find Lionel's age and his brother's age.


Lesson 5.1 Solving Systems of Linear Equations Using Tables How to Solve System of Linear Equation by making table.
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| $\mathbf{x}$ | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: |
| $\boldsymbol{y}$ | 1 | 2 | 3 |


| $x$ | 1 | 2 | 3 |
| :---: | :---: | :---: | :---: |
| $y$ | 10 | 6 | 2 |

## Lesson 5.1 Solving Systems of Linear Equations Using Tables

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

$$
\begin{gathered}
x+2 y=4 \\
x=2 y
\end{gathered}
$$


$3 x+2 y=10$
$5 x-2 y=6$

## Lesson 5.1 Solving Systems of Linear Equations Using Tables

Solve each system of linear equations by making tables of values. Each variable $x$ is a positive integer less than 6.
(2) $\begin{aligned} & x+2 y=4 \\ & x=2 y \quad x=2, y=1\end{aligned}$
(3) $3 x+2 y=10$
$5 x-2 y=6 x=2, y=2$

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## Lesson 5.1 Solving Systems of Linear Equations Using Tables

Independent Practice \#1-12


Challenge-
*Solve created equations "Pick a Snowflake"
*Create Word-toon for vocabulary words


Lesson Check - \#5 Can solve systems of equation by making tables of values.

