

## Objective

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

following strategy...

\*Elimination Method with

and without common

terms

# BLO IDEA

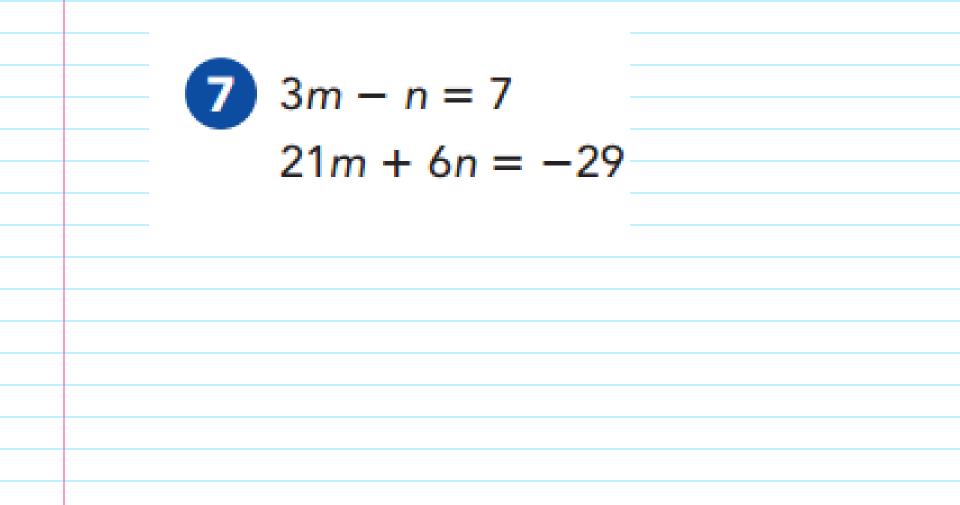
A system of linear
equations may have a
unique solution. It can
be solved using the
elimination, substitution,
or graphical methods.

#### **Common Core State Standards**

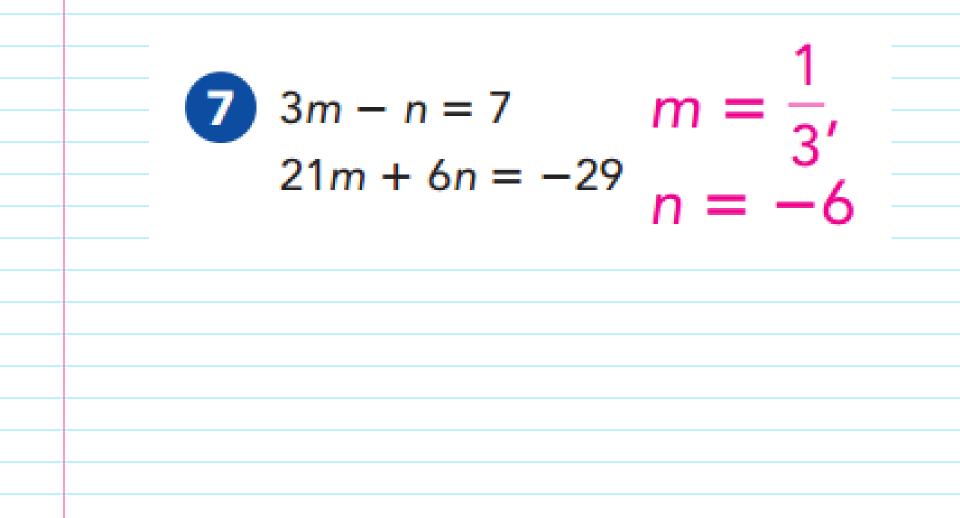
8EE 8a Understand that solutions to a system...satisfy both equations simultaneously. 8EE 8 b Solve Systems of two linear equations in two variables algebraically

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

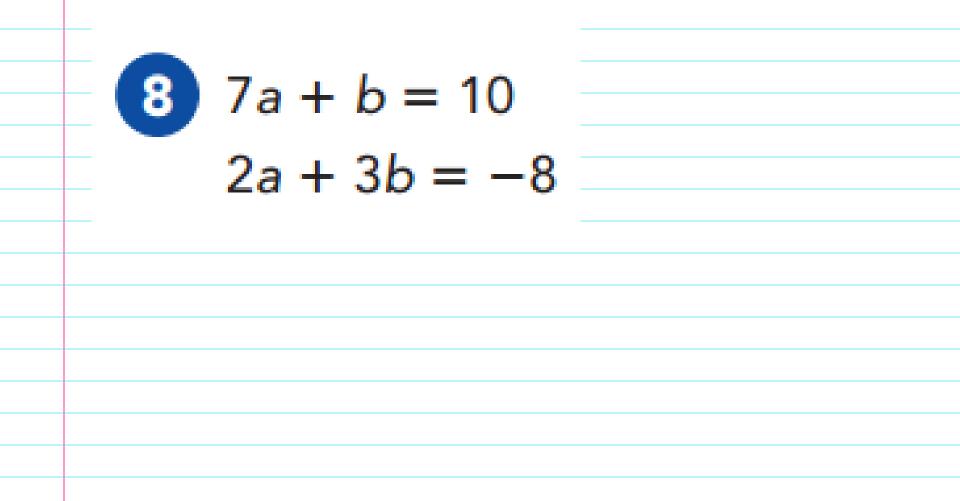
#### **Guided Practice**



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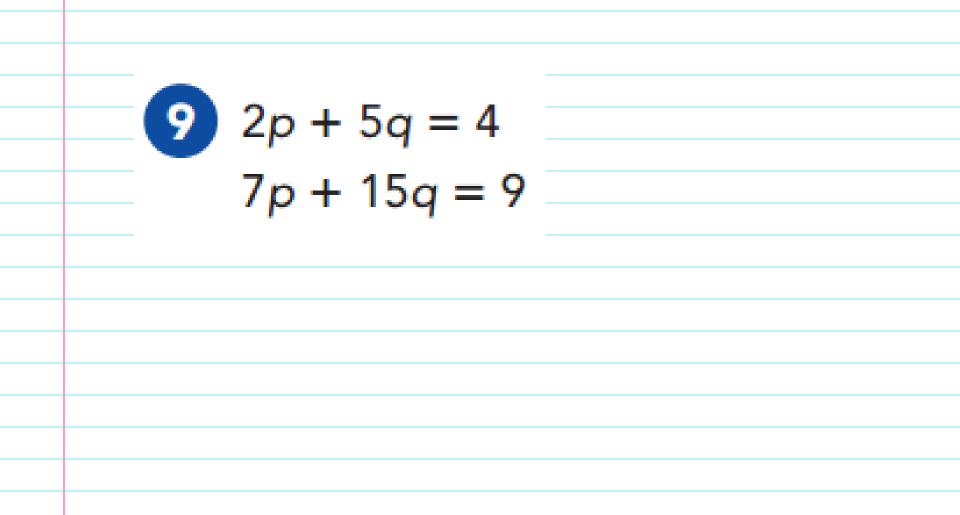


#### **Guided Practice**

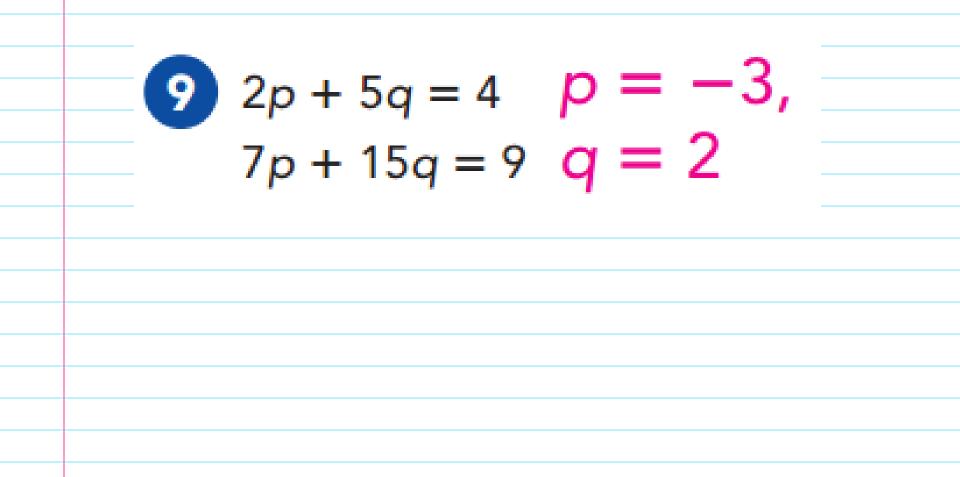
Solve each system of linear equations using the elimination method.

## **8** 7a + b = 10 a = 2,2a + 3b = -8 b = -4

#### **Guided Practice**



#### **Guided Practice**



Practice 5.2 #1-25 Challenge-#10,11,18,21,22,25 \*Solve created equations Practice 5.2 "Pick a Snowflake" 2 2j + 3k = 11 3 m + n = 30 (1) 2i + k = 6i - k = 82i - 5k = 32m - n = 20\*Real World Problem (website) 4 3x - y = 9 5 5s - t = 12 6 2b + c = 10 2x - y = 73s + t = 122b - c = 63m - n = 7 7a + b = 10 9 2p + 5a = 4\*BuzzMath  $21m \pm 4n = -29$  $2a \pm 3b = -8$  $7n \pm 15n = 9$ Solve each system of linear equations using the substitution method. (10) 2j + k = 311 2h + 3k = 13 12 3m + b = 23 k = j - 9b = 2k - 4m - b = 5buzz Math Angela Eaton Go Premiu Sign out Help Search conten 2 1 3s - t = 5 (13) 3h - k = 10(15) 2x + y = 20 Home > Menu h - k = 2s + 2t = 43x + 4y = 40Common Core 8th Grade 3x + 2y = 07 5x - y = 20 18 3p + 4q = 3 **Review** 5x - 2y = 324x + 3y = 16Missions  $\frac{1}{2} + q = 3p$ Multiplication and Division of Powers Rational & Irrational Numbers, Solve each system of linear equations using the elimination method or substitution and Computation Exponents: Squares and Cubes method. Explain why you choose each method. Mail Expressions and Equations Dividing and Using Exponents 19 2x + 7y = 32 20 3x + 3y = 2221 7m + 2n = 20 Relations, Functions and Writing and Evaluating Numerical Expressions 4x - 5y = -123x - 2y = 72m = 3n - 5**Coordinate Graphs** Exponents: Powers with Positive Bases Geometry and Measurement 22 3h - 4k = 35 23 2h + 7k = 32 24 2m + 4 = 3n Exponents: Powers with Negative Bases k = 2h - 203h - 2k = -25m - 3n = -1🖕 View Content by Standard: Using Operations with Exponents Solve. Rational Numbers with Exponents: Decimal Bases 23 Math Journal Sam solves the following system of linear equations by the Expanded Forms of Decimals II elimination method, without using calculator. Section 1 2x + 3y = 1Squares and Square Roots 3x - 17y = 23Estimating Square Boots He can multiply the first equation by 3 and the second equation by 2 in order to Simplifying Square Roots eliminate x. Or he can eliminate y by multiplying the first equation by 17 and the second equation by 3. Which way should Sam choose? Explain

Lesson Check #1-25 Can Solve Systems of linear equations using the elimination method

## Ticket Out the Door-1 Better and 1 Puzzle

- \*Try to use key vocabulary
  - Systems of Linear equations, unique solution,
  - elimination method with/without common terms

## 1 thing I better understand after today's class is...

### 1 thing I am still puzzled about is...