## Eureka!

## feriny tho Germin meets Puldilid

Terin Emenidat Kaxey Ryan Tom Flame

## Ine Ulininuiturs Eiclididean Illogorithan



## GCD Find the Createst Commonnivisor



# Meet Gerry the Gun-Toting Gerbill 



Gerry's standing one space from the gold... He can walk 5 spaces or hop 9 spaces.

## Gerry's Second Challenge



Gerry's still standing one space from the gold...
But now, he can walk $\mathbf{9}$ spaces or hop $\mathbf{1 5}$ spaces.

## Why Gerry the Gerbil Won



Factors of 5: 1, 5
Factors of 9:1, 3, 9
Since the GCD of 5 and 9 is 1 , Gerry can hop and jump to get the gold.

## An Unwinnadale Situation..



Factors of $15: 1,3,5,15$
Factors of 9: 1,3, 9
He can only pick up the pot of gold when he's a multiple of 3 units away.

## The Mathematics Ihroved

- Students use problem-solving in a game situation.
- Students get practice grouping, substituting, and collecting like terms with two variables.
- Students learn new ideas related to the GCF and Euclidean Algorithm.


Operations With Real Numbers:
-A1.1.3

Pairs of Linear Equations and Inequalities:
-A1.5.3

Mathematical Reasoning and Problem Solving:
-A1.9.1, A1.9.2, A1.9.3

