



The Great Animatronic Arena Mystery

Grade 5 math · Addition, Subtraction, Multiplication, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

A huge glitch rocked the Neon Bay Island Arena during the grand tournament. A rogue animatronic stomped through the zone and snatched the golden victory trophy right out of the vault. Squad leaders Donnie, Roman, and Ryan need your puzzle-solving skills to crack the math codes and unmask the culprit!

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the rogue animatronic is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	MAIN ATTACK	GEAR ABILITY	DOMINANT HAND	CASING COLOR	VULNERABILITY
Bolt Brody	Atomic Blast	Mech Armor	Right Handed	Metallic Gold	Sound Wave
Mecha Maya	Shockwave Dash	Shield Potion	Left Handed	Metallic Gold	Water Splash
Chomp Charlie	Shockwave Dash	Turbo Jetpack	Left Handed	Neon Green	EMP Blast
Roman V	Plasma Beam	Turbo Jetpack	Left Handed	Neon Green	Water Splash
Sparky Sid	Atomic Blast	Shield Potion	Left Handed	Neon Green	Sound Wave
Rex Gamer	Boogie Bomb	Mech Armor	Left Handed	Metallic Gold	EMP Blast
Zero Zack	Plasma Beam	Turbo Jetpack	Right Handed	Neon Green	Sound Wave
Rift Rey	Shockwave Dash	Shield Potion	Left Handed	Neon Green	Water Splash
Shadow Syd	Laser Stares	Mech Armor	Right Handed	Rusty Silver	Water Splash
Viper Vance	Shockwave Dash	Glider Wings	Right Handed	Rusty Silver	EMP Blast
Siren Sam	Shockwave Dash	Mech Armor	Left Handed	Neon Green	Sound Wave
Omega Otis	Boogie Bomb	Turbo Jetpack	Left Handed	Neon Green	Sound Wave
Falcon Faye	Atomic Blast	Mech Armor	Right Handed	Rusty Silver	EMP Blast
Pixel Pete	Plasma Beam	Mech Armor	Right Handed	Neon Green	Sound Wave
Laser Leo	Laser Stares	Mech Armor	Left Handed	Metallic Gold	Sound Wave
Circuit Chloe	Laser Stares	Glider Wings	Left Handed	Metallic Gold	Water Splash
Apex Ava	Atomic Blast	Glider Wings	Left Handed	Neon Green	Sound Wave
Nitro Nick	Shockwave Dash	Turbo Jetpack	Left Handed	Neon Green	Sound Wave
Donnie B	Plasma Beam	Turbo Jetpack	Right Handed	Rusty Silver	EMP Blast
Titan Tim	Shockwave Dash	Mech Armor	Left Handed	Neon Green	Water Splash
Ryan K	Shockwave Dash	Stealth Camo	Left Handed	Metallic Gold	Water Splash

CLUE 1 Addition

To tally the total energy cell canisters collected from the neon drops, the arena rangers added the loot piles.

Solve each problem, then write its letter in every clue box that shows the same number.

T																			
4467	8572	8631	2806	9190	2806	9243	8631	4831	4467	3668	6750	8631	2806	8729	6750	4467			

9190	2806	8631	2806	8572	7486	8631	9129	3668	9243	6750	4467	7486	6750	8729					

$2765 + 1702 = \square \rightarrow \text{T}$

$3739 + 5390 = \square \rightarrow \text{L}$

$2814 + 5758 = \square \rightarrow \text{H}$

$1185 + 2483 = \square \rightarrow \text{D}$

$3509 + 5122 = \square \rightarrow \text{E}$

$4082 + 5161 = \square \rightarrow \text{P}$

$3493 + 3993 = \square \rightarrow \text{I}$

$4227 + 2523 = \square \rightarrow \text{O}$

$1729 + 3102 = \square \rightarrow \text{C}$

$2795 + 6395 = \square \rightarrow \text{U}$

$3907 + 4822 = \square \rightarrow \text{N}$

$1110 + 1696 = \square \rightarrow \text{S}$

Scratch space:

CLUE 2

Subtraction

To check how many shield potion crates remained after the rogue animatronic raid, the squad subtracted the damaged stock.

Solve each problem, then write its letter in every clue box that shows the same number.

W									W										
1396	7137	3953	8305	6621	7005	7005	7005	1873	1396	3953	4345	6621	8020	1873	3953	3953	1873	3539	5093

W												
1396	7137	3953	4345	3645	6621	1745	3953	4345	1873	8305	3479	

6330 - 4934 = → W	8570 - 4617 = → T	12878 - 4573 = → N
7404 - 3925 = → D	4485 - 140 = → H	11837 - 3817 = → M
5577 - 3832 = → F	7624 - 4085 = → C	8937 - 2316 = → E
9663 - 4570 = → K	10678 - 3541 = → I	6235 - 2590 = → L
5477 - 3604 = → A	11682 - 4677 = → S	

Scratch space:

CLUE 3
Multiplication facts (1-12)

To calculate the total boogie bombs stored across equal supply racks in the bunker, the tech team multiplied the rows.

Solve each problem, then write its letter in every clue box that shows the same number.

G												G							
44	48	33	45	70	56	48	56	11	70	25	63	44	25	56	1	48	2	70	
16	33	72	11	56	108	1	56	108	48	2	108	25	11	7					

$11 \times 4 = \square \rightarrow$ G	$3 \times 11 = \square \rightarrow$ A	$7 \times 1 = \square \rightarrow$ M	
$10 \times 7 = \square \rightarrow$ D	$8 \times 7 = \square \rightarrow$ S	$5 \times 5 = \square \rightarrow$ H	
$12 \times 6 = \square \rightarrow$ V	$9 \times 5 = \square \rightarrow$ R	$2 \times 1 = \square \rightarrow$ N	
$12 \times 9 = \square \rightarrow$ T	$2 \times 8 = \square \rightarrow$ W	$1 \times 1 = \square \rightarrow$ O	$7 \times 9 = \square \rightarrow$ I
$6 \times 8 = \square \rightarrow$ U	$11 \times 1 = \square \rightarrow$ E		

Scratch space:

CLUE 4
Fractions of a number

To find the portion of intact victory crowns saved from the monster stampede, the island crew took a fraction of the total vault inventory.

Solve each problem, then write its letter in every clue box that shows the same number.

S					S														
34	29	33	2	38	34	32	33	2	3	10	3	37	33	3	6	14	37	37	3
									S										
32	2	14	30	38	38	8	37	34	29	37	3	37							

$4/10 \text{ of } 85 = \square \rightarrow \text{S}$

$2/4 \text{ of } 4 = \square \rightarrow \text{U}$

$2/6 \text{ of } 99 = \square \rightarrow \text{O}$

$5/10 \text{ of } 58 = \square \rightarrow \text{C}$

$5/10 \text{ of } 16 = \square \rightarrow \text{H}$

$5/8 \text{ of } 48 = \square \rightarrow \text{A}$

$4/8 \text{ of } 20 = \square \rightarrow \text{D}$

$1/4 \text{ of } 24 = \square \rightarrow \text{G}$

$1/4 \text{ of } 148 = \square \rightarrow \text{E}$

$7/10 \text{ of } 20 = \square \rightarrow \text{R}$

$3/6 \text{ of } 76 = \square \rightarrow \text{T}$

$1/4 \text{ of } 128 = \square \rightarrow \text{F}$

$2/8 \text{ of } 12 = \square \rightarrow \text{N}$

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

To split the recovered power cores equally among the defense towers, the guards divided the entire crate.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$55 \div 11 = \boxed{}$

$15 \div 5 = \boxed{}$

$44 \div 4 = \boxed{}$

$66 \div 11 = \boxed{}$

$16 \div 4 = \boxed{}$

$16 \div 8 = \boxed{}$

$35 \div 5 = \boxed{}$

$132 \div 11 = \boxed{}$

$99 \div 11 = \boxed{}$

$70 \div 7 = \boxed{}$

$56 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted the vault with atomic energy, then fled using glider wings.
2. The villain dashed forward with a shockwave burst, then fled using glider wings.
3. The villain dashed forward with a shockwave burst, then escaped with a turbo jetpack.
4. The villain zapped the defense towers with laser eyes, then fled using glider wings.
5. The villain dashed forward with a shockwave burst, then powered up mech armor.
6. The villain tossed boogie bombs across the floor, then healed up with a shield potion.
7. The villain fired a plasma beam through the gates, then fled using glider wings.
8. The villain tossed boogie bombs across the floor, then powered up mech armor.
9. The villain fired a plasma beam through the gates, then healed up with a shield potion.
10. The villain tossed boogie bombs across the floor, then vanished using stealth camo.
11. The villain tossed boogie bombs across the floor, then escaped with a turbo jetpack.
12. The villain blasted the vault with atomic energy, then vanished using stealth camo.

Answer Key

The Great Animatronic Arena Mystery

Culprit: Apex Ava

Atomic Blast · Glider Wings · Left Handed · Neon Green · Sound Wave

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT USE SHIELD POTION"

$2765 + 1702 = 4467$ (T) · $3739 + 5390 = 9129$ (L) · $2814 + 5758 = 8572$ (H) · $1185 + 2483 = 3668$ (D) · $3509 + 5122 = 8631$ (E) · $4082 + 5161 = 9243$ (P) · $3493 + 3993 = 7486$ (I) · $4227 + 2523 = 6750$ (O) · $1729 + 3102 = 4831$ (C) · $2795 + 6395 = 9190$ (U) · $3907 + 4822 = 8729$ (N) · $1110 + 1696 = 2806$ (S)

Clue 2 (Subtraction): "WITNESS SAW THEM ATTACK WITH LEFT HAND"

$6330 - 4934 = 1396$ (W) · $8570 - 4617 = 3953$ (T) · $12878 - 4573 = 8305$ (N) · $7404 - 3925 = 3479$ (D) · $4485 - 140 = 4345$ (H) · $11837 - 3817 = 8020$ (M) · $5577 - 3832 = 1745$ (F) · $7624 - 4085 = 3539$ (C) · $8937 - 2316 = 6621$ (E) · $9663 - 4570 = 5093$ (K) · $10678 - 3541 = 7137$ (I) · $6235 - 2590 = 3645$ (L) · $5477 - 3604 = 1873$ (A) · $11682 - 4677 = 7005$ (S)

Clue 3 (Multiplication facts (1-12)): "GUARDS USED HIGH SOUND WAVES TO STUN THEM"

$11 \times 4 = 44$ (G) · $3 \times 11 = 33$ (A) · $7 \times 1 = 7$ (M) · $10 \times 7 = 70$ (D) · $8 \times 7 = 56$ (S) · $5 \times 5 = 25$ (H) · $12 \times 6 = 72$ (V) · $9 \times 5 = 45$ (R) · $2 \times 1 = 2$ (N) · $12 \times 9 = 108$ (T) · $2 \times 8 = 16$ (W) · $1 \times 1 = 1$ (O) · $7 \times 9 = 63$ (I) · $6 \times 8 = 48$ (U) · $11 \times 1 = 11$ (E)

Clue 4 (Fractions of a number): "SCOUTS FOUND NEON GREEN FUR AT THE SCENE"

$4/10$ of $85 = 34$ (S) · $2/4$ of $4 = 2$ (U) · $2/6$ of $99 = 33$ (O) · $5/10$ of $58 = 29$ (C) · $5/10$ of $16 = 8$ (H) · $5/8$ of $48 = 30$ (A) · $4/8$ of $20 = 10$ (D) · $1/4$ of $24 = 6$ (G) · $1/4$ of $148 = 37$ (E) · $7/10$ of $20 = 14$ (R) · $3/6$ of $76 = 38$ (T) · $1/4$ of $128 = 32$ (F) · $2/8$ of $12 = 3$ (N)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Apex Ava

$55 \div 11 = 5$ · $15 \div 5 = 3$ · $44 \div 4 = 11$ · $66 \div 11 = 6$ · $16 \div 4 = 4$ · $16 \div 8 = 2$ · $35 \div 5 = 7$ · $132 \div 11 = 12$ · $99 \div 11 = 9$ · $70 \div 7 = 10$ · $56 \div 7 = 8$