



The Neo-Rome Arena Sabotage

Grade 5 math · Addition, Fractions of a number, Order of operations, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The big hockey championship between the Neo-Rome Gladiators and the Godzilla Giants is tonight! But someone has sabotaged the golden power puck and locked the referee in the penalty box. Grab your skates and help Donnie Jr find the rogue pilot before the game is cancelled!

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 Mech Pilot is _____

Possible suspects

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

NAME	SHOT STYLE	SPECIAL UPGRADE	SHOOTING HAND	HELMET STYLE	GLITCH TRIGGER
Carey	Fireball Shot	Heat Ray Beam	Right-handed shooter	Neon green mohawk	Loud buzzer noise
Cale	Laser Blade Sweep	Gravity Anchor	Right-handed shooter	Gold chrome helmet	Magnets on armor
Sergei	Rocket Skate Boost	Gravity Anchor	Right-handed shooter	Gold chrome helmet	Loud buzzer noise
Auston	Fireball Shot	Ice Wall Summon	Left-handed shooter	Red robot spikes	Loud buzzer noise
Ken	Rocket Skate Boost	Ice Wall Summon	Right-handed shooter	Gold chrome helmet	Loud buzzer noise
Nikita	Rocket Skate Boost	Sonic Siren	Left-handed shooter	Gold chrome helmet	Loud buzzer noise
Roman Josi	Rocket Skate Boost	Ice Wall Summon	Right-handed shooter	Red robot spikes	Magnets on armor
Evgeni	Laser Blade Sweep	Heat Ray Beam	Right-handed shooter	Neon green mohawk	Magnets on armor
Connor	Laser Blade Sweep	Sonic Siren	Left-handed shooter	Neon green mohawk	Loud buzzer noise
Joe	Rocket Skate Boost	Sonic Siren	Right-handed shooter	Neon green mohawk	Magnets on armor
Mitch	Roman Shield Block	Gravity Anchor	Right-handed shooter	Neon green mohawk	Cold water splash
Serizawa	Fireball Shot	Heat Ray Beam	Right-handed shooter	Gold chrome helmet	Loud buzzer noise
Donnie Jr	Roman Shield Block	Gravity Anchor	Right-handed shooter	Neon green mohawk	Magnets on armor
Leon	Roman Shield Block	Sonic Siren	Left-handed shooter	Red robot spikes	Cold water splash
Donnie	Roman Shield Block	Gravity Anchor	Left-handed shooter	Neon green mohawk	Loud buzzer noise
Andrei	Laser Blade Sweep	Mega EMP Burst	Right-handed shooter	Gold chrome helmet	Loud buzzer noise
Goro	Laser Blade Sweep	Ice Wall Summon	Left-handed shooter	Neon green mohawk	Magnets on armor
Ishiro	Laser Blade Sweep	Sonic Siren	Left-handed shooter	Neon green mohawk	Magnets on armor
Sidney	Atomic Tail Swipe	Ice Wall Summon	Right-handed shooter	Gold chrome helmet	Loud buzzer noise
Victor	Atomic Tail Swipe	Gravity Anchor	Left-handed shooter	Gold chrome helmet	Loud buzzer noise
Nathan	Fireball Shot	Mega EMP Burst	Left-handed shooter	Neon green mohawk	Loud buzzer noise

CLUE 1

Donnie Jr counts the extra steel Roman shields left in the locker room. Adding up the piles gives us our first big clue.

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

$2810 + 1788 = \boxed{} \rightarrow \boxed{\text{T}}$

$$3613 + 2951 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$2302 + 2669 = \boxed{} \rightarrow \boxed{\text{R}}$$

$1006 + 1130 = \boxed{} \rightarrow \mathbf{G}$

$1449 + 2816 = \boxed{} \rightarrow \boxed{\text{N}}$

$$3260 + 2771 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$4240 + 3701 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$1818 + 2767 = \boxed{} \rightarrow \boxed{0}$$

$1724 + 3094 = \boxed{} \rightarrow \boxed{} \mid$

$$2474 + 5147 = \boxed{} \rightarrow \boxed{\text{U}}$$

$1317 + 795 = \boxed{} \rightarrow \boxed{\text{M}}$

$$4095 + 3850 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$3178 + 3563 = \boxed{} \rightarrow \boxed{\text{H}}$

$$3636 + 4331 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$2897 + 6251 = \boxed{} \rightarrow \boxed{\text{D}}$

$$2710 + 3168 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$1370 + 778 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

Fractions of a number

We find a broken hockey stick. Only a fraction of its total length remains, helping us calculate where the culprit fled.

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

$$\frac{1}{4} \text{ of } 116 = \boxed{} \rightarrow \boxed{\text{T}}$$

3/6 of 32 = → **A**

$5/10$ of $72 = \boxed{} \rightarrow \mathbf{D}$

4/8 of 64 = → **S**

$$\frac{1}{3} \text{ of } 33 = \boxed{} \rightarrow \boxed{\text{R}}$$

2/6 of 39 = → **K**

5/10 of 14 = → **E**

$$\frac{1}{4} \text{ of } 152 = \boxed{} \rightarrow \boxed{0}$$

$$\frac{1}{6} \text{ of } 186 = \boxed{} \rightarrow \mathbf{P}$$

5/10 of 74 = $\rightarrow$ **W**

9/10 of 30 = $\rightarrow$ **N**

$2/4$ of 6 = $\rightarrow$ **G**

$\frac{1}{8}$ of 152 = $\rightarrow$ **U**

4/8 of 28 = →

$$2/6 \text{ of } 51 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$1/8 \text{ of } 168 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 3
Order of operations

To reboot the arena computer, we must enter the override codes in the exact order of operations.

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

A															
23	30	14	44	51	60	44	68	68	67	27	28	14	76	66	67

	A														
37	23	55	67	66	72	32	67	37	67	11	32	43	27	67	67

$15 + 4 \times 2 = \boxed{} \rightarrow \boxed{\text{A}}$

$30 + 6 \times 5 = \boxed{} \rightarrow \boxed{\text{B}}$

$8 + 3 \times 2 = \boxed{} \rightarrow \boxed{\text{O}}$

$7 \times 10 - 15 = \boxed{} \rightarrow \boxed{\text{K}}$

$10 \times 7 - 2 = \boxed{} \rightarrow \boxed{\text{Z}}$

$17 + 3 \times 5 = \boxed{} \rightarrow \boxed{\text{H}}$

$60 + 4 \times 3 = \boxed{} \rightarrow \boxed{\text{T}}$

$52 + 5 \times 3 = \boxed{} \rightarrow \boxed{\text{E}}$

$13 + 4 \times 6 = \boxed{} \rightarrow \boxed{\text{M}}$

$48 + 9 \times 2 = \boxed{} \rightarrow \boxed{\text{S}}$

$3 + 5 \times 8 = \boxed{} \rightarrow \boxed{\text{F}}$

$7 \times 12 - 8 = \boxed{} \rightarrow \boxed{\text{I}}$

$3 \times 11 - 5 = \boxed{} \rightarrow \boxed{\text{N}}$

$5 \times 5 - 14 = \boxed{} \rightarrow \boxed{\text{C}}$

$21 + 3 \times 2 = \boxed{} \rightarrow \boxed{\text{R}}$

$33 + 6 \times 3 = \boxed{} \rightarrow \boxed{\text{D}}$

$21 + 3 \times 3 = \boxed{} \rightarrow \boxed{\text{L}}$

$4 \times 12 - 4 = \boxed{} \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The team counts the rows of giant spare hockey pucks stacked near the Godzilla statue to find the suspect.

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

G																	G	
121	36	6	11	3	110	2	36	12	48	45	3	2	77	90	33	44	121	45
50	48	2	48	6	48	55	108	77	108	108	110	48	G					

$11 \times 11 = \square \rightarrow \text{G}$

$11 \times 4 = \square \rightarrow \text{N}$

$10 \times 9 = \square \rightarrow \text{P}$

$2 \times 3 = \square \rightarrow \text{L}$

$3 \times 11 = \square \rightarrow \text{I}$

$5 \times 9 = \square \rightarrow \text{S}$

$2 \times 1 = \square \rightarrow \text{R}$

$7 \times 11 = \square \rightarrow \text{A}$

$5 \times 11 = \square \rightarrow \text{F}$

$12 \times 9 = \square \rightarrow \text{T}$

$3 \times 1 = \square \rightarrow \text{C}$

$5 \times 10 = \square \rightarrow \text{W}$

$12 \times 1 = \square \rightarrow \text{M}$

$10 \times 11 = \square \rightarrow \text{H}$

$11 \times 1 = \square \rightarrow \text{D}$

$6 \times 6 = \square \rightarrow \text{O}$

$6 \times 8 = \square \rightarrow \text{E}$

Scratch space:

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

We must divide the remaining energy cells equally among the active goalie mechs to crack the final code.

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:

$45 \div 9 = \boxed{}$

$12 \div 12 = \boxed{}$

$84 \div 12 = \boxed{}$

$18 \div 2 = \boxed{}$

$9 \div 3 = \boxed{}$

$24 \div 3 = \boxed{}$

$16 \div 8 = \boxed{}$

$132 \div 11 = \boxed{}$

$66 \div 6 = \boxed{}$

$40 \div 4 = \boxed{}$

$30 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings an atomic tail, then builds an ice wall.
2. The villain sweeps a laser blade, then sounds a sonic siren.
3. The villain raises a roman shield, then triggers an emp blast.
4. The villain activates a rocket boost, then drops a gravity anchor.
5. The villain blasts a fireball shot, then fires a heat ray.
6. The villain sweeps a laser blade, then builds an ice wall.
7. The villain activates a rocket boost, then builds an ice wall.
8. The villain blasts a fireball shot, then drops a gravity anchor.
9. The villain swings an atomic tail, then drops a gravity anchor.
10. The villain swings an atomic tail, then fires a heat ray.
11. The villain sweeps a laser blade, then drops a gravity anchor.
12. The villain activates a rocket boost, then sounds a sonic siren.

Answer Key

The Neo-Rome Arena Sabotage

Culprit: Sergei

Rocket Skate Boost · Gravity Anchor · Right-handed shooter · Gold chrome helmet · Loud buzzer noise

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE THE MEGA EMP BURST"

$2810 + 1788 = 4598$ (T) · $3613 + 2951 = 6564$ (B) · $2302 + 2669 = 4971$ (R) · $1006 + 1130 = 2136$ (G) · $1449 + 2816 = 4265$ (N) · $3260 + 2771 = 6031$ (P) · $4240 + 3701 = 7941$ (E) · $1818 + 2767 = 4585$ (O) · $1724 + 3094 = 4818$ (I) · $2474 + 5147 = 7621$ (U) · $1317 + 795 = 2112$ (M) · $4095 + 3850 = 7945$ (S) · $3178 + 3563 = 6741$ (H) · $3636 + 4331 = 7967$ (V) · $2897 + 6251 = 9148$ (D) · $2710 + 3168 = 5878$ (A) · $1370 + 778 = 2148$ (L)

Clue 2 (Fractions of a number): "THE SUSPECT SHOOTS WITH A RIGHT HANDED STICK"

$\frac{1}{4}$ of 116 = 29 (T) · $\frac{3}{6}$ of 32 = 16 (A) · $\frac{5}{10}$ of 72 = 36 (D) · $\frac{4}{8}$ of 64 = 32 (S) · $\frac{1}{3}$ of 33 = 11 (R) · $\frac{2}{6}$ of 39 = 13 (K) · $\frac{5}{10}$ of 14 = 7 (E) · $\frac{1}{4}$ of 152 = 38 (O) · $\frac{1}{6}$ of 186 = 31 (P) · $\frac{5}{10}$ of 74 = 37 (W) · $\frac{9}{10}$ of 30 = 27 (N) · $\frac{2}{4}$ of 6 = 3 (G) · $\frac{1}{8}$ of 152 = 19 (U) · $\frac{4}{8}$ of 28 = 14 (I) · $\frac{2}{6}$ of 51 = 17 (C) · $\frac{1}{8}$ of 168 = 21 (H)

Clue 3 (Order of operations): "A LOUD BUZZER NOISE MAKES THE MECH FREEZE"

$15 + 4 \times 2 = 23$ (A) · $30 + 6 \times 5 = 60$ (B) · $8 + 3 \times 2 = 14$ (O) · $7 \times 10 - 15 = 55$ (K) · $10 \times 7 - 2 = 68$ (Z) · $17 + 3 \times 5 = 32$ (H) · $60 + 4 \times 3 = 72$ (T) · $52 + 5 \times 3 = 67$ (E) · $13 + 4 \times 6 = 37$ (M) · $48 + 9 \times 2 = 66$ (S) · $3 + 5 \times 8 = 43$ (F) · $7 \times 12 - 8 = 76$ (I) · $3 \times 11 - 5 = 28$ (N) · $5 \times 5 - 14 = 11$ (C) · $21 + 3 \times 2 = 27$ (R) · $33 + 6 \times 3 = 51$ (D) · $21 + 3 \times 3 = 30$ (L) · $4 \times 12 - 4 = 44$ (U)

Clue 4 (Multiplication facts (1-12)): "GOLD CHROME SCRAPINGS WERE LEFT AT THE GOAL"

$11 \times 11 = 121$ (G) · $11 \times 4 = 44$ (N) · $10 \times 9 = 90$ (P) · $2 \times 3 = 6$ (L) · $3 \times 11 = 33$ (I) · $5 \times 9 = 45$ (S) · $2 \times 1 = 2$ (R) · $7 \times 11 = 77$ (A) · $5 \times 11 = 55$ (F) · $12 \times 9 = 108$ (T) · $3 \times 1 = 3$ (C) · $5 \times 10 = 50$ (W) · $12 \times 1 = 12$ (M) · $10 \times 11 = 110$ (H) · $11 \times 1 = 11$ (D) · $6 \times 6 = 36$ (O) · $6 \times 8 = 48$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Sergei

$45 \div 9 = 5$ · $12 \div 12 = 1$ · $84 \div 12 = 7$ · $18 \div 2 = 9$ · $9 \div 3 = 3$ · $24 \div 3 = 8$ · $16 \div 8 = 2$ · $132 \div 11 = 12$ · $66 \div 6 = 11$ · $40 \div 4 = 10$ · $30 \div 5 = 6$