



The Glitch at Playtime Park

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

Detective: _____ Date: _____

Someone corrupted the master security console at Playtime Park during tonight's royale match! Detective, examine the battle logs, decipher the codes, and unmask the rogue intruder before the final zone closes.

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 glitch mastermind is _____

Possible suspects

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

NAME	PRIMARY GEAR	TACTICAL GADGET	STANCE	VISOR COLOR	SYSTEM VULNERABILITY
Huggy	Boogie Bomb Blaster	Security Grabpack	Left Handed	Neon Blue Visor	High Frequency Audio
Dan	Shock Impulse Cannon	Pocket Rift	Right Handed	Golden Yellow Visor	High Frequency Audio
Poppy	Grapple Launcher	Security Grabpack	Right Handed	Neon Blue Visor	Camera Flash Shock
Jonesy	Boogie Bomb Blaster	Glider Deployer	Left Handed	Neon Blue Visor	High Frequency Audio
Lachlan	Thermal DMR	Pocket Rift	Left Handed	Golden Yellow Visor	High Frequency Audio
Roman	Chug Splash Cannon	Pocket Rift	Left Handed	Golden Yellow Visor	EMP Power Pulse
Peely	Chug Splash Cannon	Shield Bubble	Left Handed	Neon Blue Visor	EMP Power Pulse
Donnie	Thermal DMR	Glider Deployer	Right Handed	Ruby Red Visor	Camera Flash Shock
Monty	Chug Splash Cannon	Pocket Rift	Right Handed	Neon Blue Visor	High Frequency Audio
Ali	Chug Splash Cannon	Faz-Wrench Scanner	Right Handed	Neon Blue Visor	Camera Flash Shock
Drift	Grapple Launcher	Glider Deployer	Left Handed	Ruby Red Visor	High Frequency Audio
Midas	Grapple Launcher	Faz-Wrench Scanner	Left Handed	Ruby Red Visor	EMP Power Pulse
Ryan	Shock Impulse Cannon	Shield Bubble	Left Handed	Neon Blue Visor	High Frequency Audio
Sluri	Chug Splash Cannon	Glider Deployer	Right Handed	Golden Yellow Visor	High Frequency Audio
Chica	Thermal DMR	Pocket Rift	Left Handed	Neon Blue Visor	High Frequency Audio
Matty	Shock Impulse Cannon	Faz-Wrench Scanner	Right Handed	Neon Blue Visor	Camera Flash Shock
Afton	Grapple Launcher	Security Grabpack	Left Handed	Golden Yellow Visor	EMP Power Pulse
Roxy	Grapple Launcher	Security Grabpack	Right Handed	Golden Yellow Visor	EMP Power Pulse
Sparkplug	Thermal DMR	Shield Bubble	Left Handed	Neon Blue Visor	High Frequency Audio
Lazar	Grapple Launcher	Security Grabpack	Left Handed	Ruby Red Visor	High Frequency Audio
Freddy	Grapple Launcher	Faz-Wrench Scanner	Left Handed	Neon Blue Visor	Camera Flash Shock

CLUE 1 Addition

To calculate total battle damage at the arcade booth, you tally up the score points from all three rounds.

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

T								T								T
7732	5053	7957	2632	4957	2632	6817	7957	8025	7732	5262	5550	7957	2632	2032	5550	7732
4957	2632	7957	7368	6939	3468	6165	5262	7957	7851	5262	7957	6817	3468	5550	3443	7957

$2822 + 4910 = \square \rightarrow \text{T}$	$1922 + 1521 = \square \rightarrow \text{Y}$	$3468 + 3349 = \square \rightarrow \text{P}$
$3275 + 1778 = \square \rightarrow \text{H}$	$3612 + 1650 = \square \rightarrow \text{D}$	$2563 + 2987 = \square \rightarrow \text{O}$
$2257 + 1211 = \square \rightarrow \text{L}$	$1840 + 792 = \square \rightarrow \text{S}$	$3455 + 3913 = \square \rightarrow \text{A}$
$1361 + 671 = \square \rightarrow \text{N}$	$3021 + 3918 = \square \rightarrow \text{G}$	$4830 + 3021 = \square \rightarrow \text{R}$
$4869 + 3088 = \square \rightarrow \text{E}$	$2827 + 5198 = \square \rightarrow \text{C}$	$3160 + 3005 = \square \rightarrow \text{I}$
$2024 + 2933 = \square \rightarrow \text{U}$		

Scratch space:

Fractions of a number

The security team checks what fraction of the energy cells remain charged in the workshop power bay.

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

A number line from 0 to 100 with two rows of boxes. The top row has boxes for 25, 35, 45, 55, 65, 75, 85, 95, and 100. The bottom row has boxes for 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100. The number 25 is highlighted in orange in both rows.

$5/6$ of 30 = $\rightarrow$ **S**

$\frac{1}{4}$ of 68 = $\rightarrow$ **H**

5/10 of 40 = → **U**

$2/4$ of 42 = $\rightarrow$ **T**

$\frac{3}{4}$ of 12 = $\rightarrow$

2/10 of 10 = → **Y**

$1/6$ of 180 = $\rightarrow$ **W**

4/10 of 25 = → **C**

4/8 of 44 = → **F**

$$2/8 \text{ of } 76 = \boxed{} \rightarrow \boxed{\text{P}}$$

$\frac{1}{3}$ of 21 = $\rightarrow$ **D**

$3/6$ of $80 = \square \rightarrow \boxed{\text{I}}$

$\frac{1}{4}$ of 144 = $\rightarrow$ **A**

$$\frac{1}{4} \text{ of } 12 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1/2 \text{ of } 22 = \boxed{} \rightarrow \boxed{\text{L}}$$

$1/6 \text{ of } 96 = \boxed{} \rightarrow \boxed{\text{E}}$

2/10 of 170 = → **N**

$\frac{1}{2}$ of 46 = $\rightarrow$ **G**

Scratch space:

Order of operations

Unlocking the main circuit box requires calculating the multi step override code in exact operational sequence.

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

Row 1: 15 boxes. Box 1 contains 'A'. Box 14 contains 'A'. Numbers below: 11, 59, 60, 58, 59, 50, 27, 42, 66, 20, 42, 26, 36, 45, 11, 20, 30, 60, 61.

Row 2: 15 boxes. Box 5 contains 'A'. Numbers below: 62, 20, 58, 56, 11, 7, 30, 60, 7, 36, 61, 43, 42, 27, 42, 30.

$1 + 2 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$17 + 4 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{Y}}$$

$24 + 9 \times 2 = \boxed{} \rightarrow \boxed{\text{E}}$

$$16 + 4 \times 5 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$11 \times 7 - 11 = \boxed{} \rightarrow \boxed{\text{Q}}$$

$$3 + 5 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$50 + 6 \times 2 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

$$45 + 8 \times 2 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$6 \times 6 - 9 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$55 + 2 \times 2 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$7 \times 11 - 17 = \boxed{} \rightarrow \boxed{1}$$

$$7 \times 10 - 20 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$8 \times 4 - 25 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$6 \times 12 - 16 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$10 + 8 \times 2 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$22 + 2 \times 4 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$8 + 2 \times 6 = \boxed{} \rightarrow \boxed{\text{U}}$$

$12 \times 5 - 2 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The guard inspects several rows of supply crates stored neatly inside the toy warehouse.

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

N			N															
5	77	36	5	1	35	96	77	32	35	88	84	84	84	108	88	27	120	84
													N					
11	77	27	77	35	77	9	54	1	77	108	7	5	120					

$1 \times 5 = \square \rightarrow \text{N}$

$1 \times 1 = \square \rightarrow \text{B}$

$9 \times 6 = \square \rightarrow \text{T}$

$9 \times 3 = \square \rightarrow \text{R}$

$3 \times 12 = \square \rightarrow \text{O}$

$8 \times 12 = \square \rightarrow \text{U}$

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

$12 \times 10 = \square \rightarrow \text{D}$

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

$8 \times 4 = \square \rightarrow \text{G}$

$12 \times 7 = \square \rightarrow \text{S}$

$11 \times 8 = \square \rightarrow \text{A}$

$1 \times 7 = \square \rightarrow \text{I}$

$5 \times 7 = \square \rightarrow \text{L}$

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

$1 \times 9 = \square \rightarrow \text{F}$

Scratch space:

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

To distribute the remaining shield potions evenly among the floor teams, compute the equal shares.

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:

$30 \div 6 = \boxed{}$

$36 \div 3 = \boxed{}$

$36 \div 9 = \boxed{}$

$90 \div 10 = \boxed{}$

$100 \div 10 = \boxed{}$

$70 \div 10 = \boxed{}$

$15 \div 5 = \boxed{}$

$11 \div 1 = \boxed{}$

$48 \div 8 = \boxed{}$

$9 \div 9 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sprayed a chug splash, then hid under a shield bubble.
2. The villain tossed a boogie bomb, then snatched a keycard with a grabpack.
3. The villain launched a grapple cable, then deployed a glider from the tower.
4. The villain fired a shock impulse cannon, then hid under a shield bubble.
5. The villain scanned with a thermal dmr, then escaped through a pocket rift.
6. The villain fired a shock impulse cannon, then deployed a glider from the tower.
7. The villain tossed a boogie bomb, then hid under a shield bubble.
8. The villain fired a shock impulse cannon, then escaped through a pocket rift.
9. The villain sprayed a chug splash, then escaped through a pocket rift.
10. The villain tossed a boogie bomb, then reprogrammed doors using a faz-wrench.
11. The villain sprayed a chug splash, then snatched a keycard with a grabpack.
12. The villain scanned with a thermal dmr, then hid under a shield bubble.

Answer Key

The Glitch at Playtime Park

Culprit: Huggy

Boogie Bomb Blaster · Security Grabpack · Left Handed · Neon Blue Visor · High Frequency Audio

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT USE A GLIDER DEPLOYER"

$2822 + 4910 = 7732$ (T) · $1922 + 1521 = 3443$ (Y) · $3468 + 3349 = 6817$ (P) · $3275 + 1778 = 5053$ (H) · $3612 + 1650 = 5262$ (D) · $2563 + 2987 = 5550$ (O) · $2257 + 1211 = 3468$ (L) · $1840 + 792 = 2632$ (S) · $3455 + 3913 = 7368$ (A) · $1361 + 671 = 2032$ (N) · $3021 + 3918 = 6939$ (G) · $4830 + 3021 = 7851$ (R) · $4869 + 3088 = 7957$ (E) · $2827 + 5198 = 8025$ (C) · $3160 + 3005 = 6165$ (I) · $2024 + 2933 = 4957$ (U)

Clue 2 (Fractions of a number): "SECURITY FOOTAGE SHOWS A LEFT HANDED GRIP"

$5/6$ of 30 = 25 (S) · $1/4$ of 68 = 17 (H) · $5/10$ of 40 = 20 (U) · $2/4$ of 42 = 21 (T) · $3/4$ of 12 = 9 (O) · $2/10$ of 10 = 2 (Y) · $1/6$ of 180 = 30 (W) · $4/10$ of 25 = 10 (C) · $4/8$ of 44 = 22 (F) · $2/8$ of 76 = 19 (P) · $1/3$ of 21 = 7 (D) · $3/6$ of 80 = 40 (I) · $1/4$ of 144 = 36 (A) · $1/4$ of 12 = 3 (R) · $1/2$ of 22 = 11 (L) · $1/6$ of 96 = 16 (E) · $2/10$ of 170 = 34 (N) · $1/2$ of 46 = 23 (G)

Clue 3 (Order of operations): "A HIGH FREQUENCY AUDIO BUG WAS DISCOVERED"

$1 + 2 \times 5 = 11$ (A) · $17 + 4 \times 7 = 45$ (Y) · $24 + 9 \times 2 = 42$ (E) · $16 + 4 \times 5 = 36$ (C) · $11 \times 7 - 11 = 66$ (Q) · $3 + 5 \times 8 = 43$ (V) · $50 + 6 \times 2 = 62$ (B) · $45 + 8 \times 2 = 61$ (O) · $6 \times 6 - 9 = 27$ (R) · $55 + 2 \times 2 = 59$ (H) · $7 \times 11 - 17 = 60$ (I) · $7 \times 10 - 20 = 50$ (F) · $8 \times 4 - 25 = 7$ (S) · $6 \times 12 - 16 = 56$ (W) · $10 + 8 \times 2 = 26$ (N) · $22 + 2 \times 4 = 30$ (D) · $8 + 2 \times 6 = 20$ (U) · $12 \times 5 - 2 = 58$ (G)

Clue 4 (Multiplication facts (1-12)): "NEON BLUE GLASS SHARDS WERE LEFT BEHIND"

$1 \times 5 = 5$ (N) · $1 \times 1 = 1$ (B) · $9 \times 6 = 54$ (T) · $9 \times 3 = 27$ (R) · $3 \times 12 = 36$ (O) · $8 \times 12 = 96$ (U) · $11 \times 1 = 11$ (W) · $12 \times 10 = 120$ (D) · $12 \times 9 = 108$ (H) · $8 \times 4 = 32$ (G) · $12 \times 7 = 84$ (S) · $11 \times 8 = 88$ (A) · $1 \times 7 = 7$ (I) · $5 \times 7 = 35$ (L) · $7 \times 11 = 77$ (E) · $1 \times 9 = 9$ (F)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Huggy

$30 \div 6 = 5$ · $36 \div 3 = 12$ · $36 \div 9 = 4$ · $90 \div 10 = 9$ · $100 \div 10 = 10$ · $70 \div 10 = 7$ · $15 \div 5 = 3$ · $11 \div 1 = 11$ · $48 \div 8 = 6$ · $9 \div 9 = 1$ · $24 \div 3 = 8$