



The Grand Pixel Sabotage

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

Detective: _____ **Date:** _____

The Grand Pixel Arena was ready for the ultimate esports tournament, but someone hacked the mainframe! They locked the lead game developer in a digital cage and uploaded a virus that threatens to delete everyone's save files. The hacker left a trail of encrypted data packets across the server. Crack the codes to find out which pro gamer went rogue!

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 the Glitch Saboteur is _____

Possible suspects

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

NAME	AVATAR SPECIAL MOVE	CHEAT CODE POWER	CONTROLLER GRIP	AVATAR HAIR STYLE	IN-GAME WEAKNESS
PrestonPlayz	laser beam	infinite health	claw grip	purple mohawk	water levels
LazarBeam	shield block	super speed	palm grip	golden pixels	shield bash
Unspeakable	fireball throw	infinite health	palm grip	neon blue spikes	water levels
Grian	double jump	gravity jump	claw grip	neon blue spikes	shield bash
DrLupo	double jump	gravity jump	palm grip	purple mohawk	water levels
Faker	double jump	super speed	palm grip	neon blue spikes	lag spikes
Jacksepticeye	fireball throw	super speed	claw grip	golden pixels	water levels
DanTDM	laser beam	infinite health	palm grip	purple mohawk	water levels
SypherPK	double jump	gravity jump	palm grip	golden pixels	lag spikes
Technoblade	laser beam	gravity jump	claw grip	purple mohawk	lag spikes
Tubbo	fireball throw	glitch dash	palm grip	golden pixels	shield bash
Pokimane	laser beam	glitch dash	palm grip	purple mohawk	water levels
Ninja	teleport dodge	infinite health	palm grip	purple mohawk	lag spikes
Valkyrae	shield block	gravity jump	palm grip	golden pixels	water levels
Shroud	shield block	glitch dash	claw grip	neon blue spikes	lag spikes
Dream	shield block	gravity jump	palm grip	golden pixels	lag spikes
Stampy	double jump	wall running	palm grip	purple mohawk	water levels
LDShadowLady	shield block	super speed	palm grip	purple mohawk	water levels
Markiplier	teleport dodge	infinite health	claw grip	golden pixels	water levels
Aphmau	shield block	gravity jump	palm grip	neon blue spikes	lag spikes
Squeezie	teleport dodge	gravity jump	palm grip	neon blue spikes	water levels

CLUE 1 Multiplication facts (1-12)

To bypass the first firewall, you must count the golden power stars floating in the lobby grid. They are arranged in equal rows.

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

A 2x10 grid of boxes. The top row contains the following values from left to right: 14 (with an orange 'T' above it), 15, 60, 88, 24, 32, 32, 80, 24, 1, 144, 28, 60, 50, 1, 28, and 14 (with an orange 'T' above it). The bottom row contains the following values from left to right: 72, 50, 60, 3, 32, 24, 14 (with an orange 'T' above it), 54, 15, 144, 80, 50, and 15.

$2 \times 7 = \boxed{} \rightarrow \boxed{\text{T}}$

$$6 \times 10 = \boxed{} \rightarrow \boxed{\text{E}}$$

$10 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$6 \times 9 = \boxed{} \rightarrow \boxed{\text{C}}$

$$1 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{N}}$$

$$4 \times 8 = \boxed{} \rightarrow \boxed{\text{L}}$$

$12 \times 2 = \boxed{} \rightarrow \boxed{I}$

$12 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$$4 \times 7 = \boxed{} \rightarrow \boxed{0}$$

$3 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$$11 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

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

$10 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$12 \times 6 = \boxed{} \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 2 Rounding

A damaged terminal displays the saboteur's health bar. You have to round the fluctuating health points to the nearest ten to stabilize the screen.

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

T																	
900	1700	290	70	90	70	230	290	170	900	90	70	290	70	230	9000	50	2300

2900	200	5000	230

Round 935 to the nearest hundred → **T**

Round 1,720 to the nearest hundred → **H**

Round 2,919 to the nearest hundred → **G**

Round 233 to the nearest ten → **P**

Round 93 to the nearest ten → **U**

Round 67 to the nearest ten → **S**

Round 224 to the nearest hundred → **R**

Round 47 to the nearest ten → **L**

Round 9,418 to the nearest thousand → **A**

Round 5,275 to the nearest thousand → **I**

Round 2,311 to the nearest hundred → **M**

Round 172 to the nearest ten → **C**

Round 286 to the nearest ten → **E**

Scratch space:

Fractions of a number

The server's backup battery is running low. You need to calculate a fraction of the remaining power cells to reboot the security cameras.

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

Diagram illustrating the arrangement of boxes and numbers:

Row 1 (Top): 15 boxes. The 1st, 13th, and 18th boxes are shaded orange and contain the letter 'T'. The numbers below the boxes are: 22, 17, 38, 11, 25, 36, 36, 40, 25, 30, 17, 40, 22, 38, 9, 20, 40, 22, 38, 13.

Row 2 (Middle): 10 boxes. The numbers below the boxes are: 36, 38, 11, 38, 36, 9.

Row 3 (Bottom): 6 boxes. The numbers below the boxes are: 36, 38, 11, 38, 36, 9.

2/6 of 66 = → **T**

5/10 of 34 = → **H**

$2/6$ of 120 = $\rightarrow$ **A**

$4/10$ of 95 = $\rightarrow$ **E**

$2/4$ of 22 = $\rightarrow$ **V**

$2/5$ of 75 = $\rightarrow$ **N**

$$\frac{1}{4} \text{ of } 80 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$5/10 \text{ of } 50 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2/10 \text{ of } 65 = \boxed{} \rightarrow \boxed{\text{R}}$$

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

$4/10$ of $90 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4

To unlock the hacker's hidden folder, you must solve a complex equation using the strict rules of operations on the keypad.

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

A number line from 0 to 100. The line is divided into segments by vertical tick marks. Below the line, numbers are written in each segment. Some boxes are highlighted in orange and contain the letter 'A'.

Segment	Number	Highlighted (A)
1	63	Yes
2	13	No
3	10	No
4	12	No
5	13	No
6	74	No
7	7	No
8	30	No
9	23	No
10	8	No
11	63	Yes
12	67	No
13	79	No
14	67	No
15	63	Yes
16	62	No
17	62	No
18	7	No
19	7	No
20	45	No
21	23	No
22	45	No
23	12	No
24	63	Yes
25	78	No
26	63	Yes
27	12	No

$$7 \times 11 - 14 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$7 + 4 \times 4 = \boxed{} \rightarrow \boxed{0}$$

$$37 + 6 \times 7 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$4 + 3 \times 2 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$3 + 5 \times 2 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$3 \times 7 - 9 = \boxed{} \rightarrow \boxed{\text{R}}$$

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

$$3 \times 9 - 19 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$15 + 3 \times 5 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$68 + 2 \times 5 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$25 + 7 \times 7 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$8 + 6 \times 9 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$6 \times 8 - 3 = \boxed{} \rightarrow \boxed{\text{N}}$$

$9 \times 8 - 5 = \boxed{} \rightarrow \boxed{W}$

Scratch space:

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

You find a bundle of corrupted data keys. You must divide them equally among your team's avatars to decode the final coordinates of the villain.

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:

$42 \div 6 = \boxed{}$

$24 \div 2 = \boxed{}$

$45 \div 5 = \boxed{}$

$24 \div 12 = \boxed{}$

$15 \div 5 = \boxed{}$

$60 \div 12 = \boxed{}$

$24 \div 4 = \boxed{}$

$24 \div 6 = \boxed{}$

$77 \div 7 = \boxed{}$

$4 \div 4 = \boxed{}$

$50 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain fires a giant laser beam, then triggers extreme super speed.
2. The villain raises a sparkling shield block, then runs high up on the wall.
3. The villain throws a blazing fireball, then triggers extreme super speed.
4. The villain fires a giant laser beam, then runs high up on the wall.
5. The villain activates a quick teleport dodge, then runs high up on the wall.
6. The villain activates a quick teleport dodge, then triggers extreme super speed.
7. The villain performs a sudden double jump, then uses gravity jump to escape.
8. The villain raises a sparkling shield block, then triggers extreme super speed.
9. The villain performs a sudden double jump, then runs high up on the wall.
10. The villain activates a quick teleport dodge, then uses gravity jump to escape.
11. The villain throws a blazing fireball, then runs high up on the wall.
12. The villain fires a giant laser beam, then activates the infinite health cheat.

Answer Key

The Grand Pixel Sabotage

Culprit: LDShadowLady

shield block · super speed · palm grip · purple mohawk · water levels

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE GLITCH DASH"

$2 \times 7 = 14$ (T) · $6 \times 10 = 60$ (E) · $10 \times 8 = 80$ (A) · $6 \times 9 = 54$ (C) · $1 \times 1 = 1$ (N) · $4 \times 8 = 32$ (L) · $12 \times 2 = 24$ (I) · $12 \times 12 = 144$ (D) · $4 \times 7 = 28$ (O) · $3 \times 1 = 3$ (G) · $11 \times 8 = 88$ (V) · $5 \times 3 = 15$ (H) · $10 \times 5 = 50$ (S) · $12 \times 6 = 72$ (U)

Clue 2 (Rounding): "THE SUSPECT USES PALM GRIP"

Round 935 to the nearest hundred = 900 (T) · Round 1,720 to the nearest hundred = 1700 (H) · Round 2,919 to the nearest hundred = 2900 (G) · Round 233 to the nearest ten = 230 (P) · Round 93 to the nearest ten = 90 (U) · Round 67 to the nearest ten = 70 (S) · Round 224 to the nearest hundred = 200 (R) · Round 47 to the nearest ten = 50 (L) · Round 9,418 to the nearest thousand = 9000 (A) · Round 5,275 to the nearest thousand = 5000 (I) · Round 2,311 to the nearest hundred = 2300 (M) · Round 172 to the nearest ten = 170 (C) · Round 286 to the nearest ten = 290 (E)

Clue 3 (Fractions of a number): "THE VILLAIN HATES WATER LEVELS"

$2/6$ of 66 = 22 (T) · $5/10$ of 34 = 17 (H) · $2/6$ of 120 = 40 (A) · $4/10$ of 95 = 38 (E) · $2/4$ of 22 = 11 (V) · $2/5$ of 75 = 30 (N) · $1/4$ of 80 = 20 (W) · $5/10$ of 50 = 25 (I) · $2/10$ of 65 = 13 (R) · $3/4$ of 12 = 9 (S) · $4/10$ of 90 = 36 (L)

Clue 4 (Order of operations): "A PURPLE MOHAWK WAS SEEN ON RADAR"

$7 \times 11 - 14 = 63$ (A) · $7 + 4 \times 4 = 23$ (O) · $37 + 6 \times 7 = 79$ (K) · $4 + 3 \times 2 = 10$ (U) · $3 + 5 \times 2 = 13$ (P) · $3 \times 7 - 9 = 12$ (R) · $3 + 2 \times 2 = 7$ (E) · $3 \times 9 - 19 = 8$ (H) · $15 + 3 \times 5 = 30$ (M) · $68 + 2 \times 5 = 78$ (D) · $25 + 7 \times 7 = 74$ (L) · $8 + 6 \times 9 = 62$ (S) · $6 \times 8 - 3 = 45$ (N) · $9 \times 8 - 5 = 67$ (W)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → LDShadowLady

$42 \div 6 = 7$ · $24 \div 2 = 12$ · $45 \div 5 = 9$ · $24 \div 12 = 2$ · $15 \div 5 = 3$ · $60 \div 12 = 5$ · $24 \div 4 = 6$ · $24 \div 6 = 4$ · $77 \div 7 = 11$ · $4 \div 4 = 1$ · $50 \div 5 = 10$