



The Great Server Room Glitch

Grade 3 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

A sneaky intruder called the Glitch has bypassed our firewalls! The Lead Inventor's brand new AI engine is missing. We must use our coding clues to find who did it before the system crashes!

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 is _____

Possible suspects

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

NAME	CODING SKILL	FAVORITE GADGET	TYPING STYLE	AVATAR HAT	SYSTEM VULNERABILITY
Larry Page	html coding	holo projector	left handed typer	cyber helmet	dust bunnies
Satya Nadella	html coding	pocket drone	left handed typer	cyber helmet	dust bunnies
Bill Gates	html coding	sonar headset	right handed typer	neon visor	dust bunnies
Sundar Pichai	html coding	data glove	left handed typer	cyber helmet	dust bunnies
Katherine Johnson	python	sonar headset	left handed typer	cyber helmet	dust bunnies
Ada Lovelace	c plus plus	holo projector	left handed typer	cyber helmet	magnets
Sergey Brin	python	pocket drone	left handed typer	cyber helmet	dust bunnies
Alan Turing	html coding	holo projector	left handed typer	cyber helmet	magnets
Guido van Rossum	javascript	holo projector	right handed typer	cyber helmet	dust bunnies
Jeff Bezos	html coding	pocket drone	left handed typer	beanbag beanie	magnets
Linus Torvalds	html coding	laser stylus	right handed typer	beanbag beanie	water splashes
Elon Musk	html coding	data glove	left handed typer	beanbag beanie	dust bunnies
Hedy Lamarr	javascript	data glove	left handed typer	beanbag beanie	water splashes
Susan Wojcicki	javascript	sonar headset	left handed typer	beanbag beanie	dust bunnies
Tim Berners Lee	javascript	data glove	right handed typer	beanbag beanie	magnets
Tim Cook	html coding	sonar headset	left handed typer	neon visor	dust bunnies
Margaret Hamilton	c plus plus	holo projector	left handed typer	neon visor	magnets
Steve Wozniak	html coding	pocket drone	left handed typer	neon visor	dust bunnies
Radia Perlman	binary code	data glove	left handed typer	neon visor	magnets
Grace Hopper	c plus plus	sonar headset	left handed typer	neon visor	magnets
Steve Jobs	binary code	holo projector	left handed typer	neon visor	dust bunnies

CLUE 1

The lab radar scans the network. It only shows rounded numbers for the data packets. Let's round the numbers to read the secret message.

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

Round 41 to the nearest ten $\rightarrow$ **T**

Round 6,745 to the nearest thousand → **D**

Round 3,146 to the nearest thousand $\rightarrow$

Round 447 to the nearest hundred $\rightarrow$

Round 69 to the nearest ten $\rightarrow$ **N**

Round 24 to the nearest ten $\rightarrow$ **E**

Round 734 to the nearest hundred $\rightarrow$ **U**

Round 4,159 to the nearest thousand → **G**

Round 29 to the nearest ten $\rightarrow$ **L**

Round 151 to the nearest hundred $\rightarrow$ **S**

Round 64 to the nearest ten → **A**

Round 51 to the nearest ten $\rightarrow$ **C**

Round 827 to the nearest hundred $\rightarrow$ **H**

Round 499 to the nearest hundred $\rightarrow$ **R**

Scratch space:

CLUE 2 Addition

We need to find the total power used by the server racks. Add the electricity units from each room to open the locked door.

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

T						T									T
408	543	226	263	910	394	408	721	543	394	902	249	910	226	977	408
						T									
543	249	805	549	226	549	408	476	419	226	621					

$272 + 136 = \square \rightarrow \mathbf{T}$	$127 + 136 = \square \rightarrow \mathbf{G}$	$448 + 454 = \square \rightarrow \mathbf{S}$
$154 + 265 = \square \rightarrow \mathbf{P}$	$511 + 466 = \square \rightarrow \mathbf{F}$	$327 + 583 = \square \rightarrow \mathbf{L}$
$107 + 142 = \square \rightarrow \mathbf{A}$	$411 + 394 = \square \rightarrow \mathbf{N}$	$261 + 360 = \square \rightarrow \mathbf{R}$
$225 + 324 = \square \rightarrow \mathbf{D}$	$197 + 197 = \square \rightarrow \mathbf{I}$	$156 + 70 = \square \rightarrow \mathbf{E}$
$190 + 286 = \square \rightarrow \mathbf{Y}$	$311 + 232 = \square \rightarrow \mathbf{H}$	$407 + 314 = \square \rightarrow \mathbf{C}$

Scratch space:

CLUE 3
Subtraction

The main storage vault was drained of its backup batteries. Subtract the remaining cells from the starting amount to find the difference.

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

T						T										T	
709	506	768	834	658	834	709	768	636	251	834	319	768	837	468	709	633	

			T								
512	522	834	709	288	522	224	224	251	768	834	

$805 - 96 = \boxed{} \rightarrow \boxed{\text{T}}$

$862 - 356 = \boxed{} \rightarrow \boxed{\text{H}}$

$690 - 168 = \boxed{} \rightarrow \boxed{\text{U}}$

$410 - 91 = \boxed{} \rightarrow \boxed{\text{W}}$

$857 - 221 = \boxed{} \rightarrow \boxed{\text{M}}$

$706 - 48 = \boxed{} \rightarrow \boxed{\text{Y}}$

$1183 - 346 = \boxed{} \rightarrow \boxed{\text{A}}$

$501 - 33 = \boxed{} \rightarrow \boxed{\text{K}}$

$410 - 186 = \boxed{} \rightarrow \boxed{\text{N}}$

$387 - 136 = \boxed{} \rightarrow \boxed{\text{I}}$

$1032 - 399 = \boxed{} \rightarrow \boxed{\text{O}}$

$821 - 53 = \boxed{} \rightarrow \boxed{\text{E}}$

$615 - 327 = \boxed{} \rightarrow \boxed{\text{B}}$

$986 - 152 = \boxed{} \rightarrow \boxed{\text{S}}$

$826 - 314 = \boxed{} \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The server room has rows of glowing hard drives. Multiply the rows by the drives in each row to find the system code.

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

T							T									
120	64	10	50	4	50	120	50	66	9	10	50	66	144	50		
42	36	3	10	66	64	10	20	30	10	120						

$10 \times 12 = \square \rightarrow \boxed{\text{T}}$

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

$5 \times 2 = \square \rightarrow \boxed{\text{E}}$

$2 \times 2 = \square \rightarrow \boxed{\text{V}}$

$3 \times 3 = \square \rightarrow \boxed{\text{W}}$

$10 \times 3 = \square \rightarrow \boxed{\text{M}}$

$11 \times 6 = \square \rightarrow \boxed{\text{R}}$

$4 \times 5 = \square \rightarrow \boxed{\text{L}}$

$3 \times 1 = \square \rightarrow \boxed{\text{B}}$

$7 \times 6 = \square \rightarrow \boxed{\text{C}}$

$5 \times 10 = \square \rightarrow \boxed{\text{A}}$

$8 \times 8 = \square \rightarrow \boxed{\text{H}}$

$6 \times 6 = \square \rightarrow \boxed{\text{Y}}$

Scratch space:

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

We have a pile of replacement microchips to share. Divide them equally among the robot helpers to reboot the system.

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:

$60 \div 5 = \boxed{}$

$40 \div 8 = \boxed{}$

$30 \div 3 = \boxed{}$

$42 \div 6 = \boxed{}$

$40 \div 5 = \boxed{}$

$6 \div 6 = \boxed{}$

$18 \div 9 = \boxed{}$

$40 \div 10 = \boxed{}$

$99 \div 9 = \boxed{}$

$66 \div 11 = \boxed{}$

$21 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain overrides the security locks, then pockets the power core.
2. The villain overrides the security locks, then snatches the prototype drive.
3. The villain hacks the main server, then snatches the prototype drive.
4. The villain hacks the main server, then steals the golden wrench.
5. The villain deletes the cloud backup, then steals the golden wrench.
6. The villain scrambles the database, then snatches the prototype drive.
7. The villain reprograms the cleaning bots, then swipes the microchip.
8. The villain overrides the security locks, then swipes the microchip.
9. The villain deletes the cloud backup, then snatches the prototype drive.
10. The villain overrides the security locks, then grabs the source code.
11. The villain reprograms the cleaning bots, then grabs the source code.
12. The villain deletes the cloud backup, then grabs the source code.

Answer Key

The Great Server Room Glitch

Culprit: Larry Page

html coding · holo projector · left handed typer · cyber helmet · dust bunnies

Trail: Start 21 → Clue 1 16 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE GLITCH DOES NOT USE A SONAR HEADSET"

Round 41 to the nearest ten = 40 (T) · Round 6,745 to the nearest thousand = 7000 (D) · Round 3,146 to the nearest thousand = 3000 (I) · Round 447 to the nearest hundred = 400 (O) · Round 69 to the nearest ten = 70 (N) · Round 24 to the nearest ten = 20 (E) · Round 734 to the nearest hundred = 700 (U) · Round 4,159 to the nearest thousand = 4000 (G) · Round 29 to the nearest ten = 30 (L) · Round 151 to the nearest hundred = 200 (S) · Round 64 to the nearest ten = 60 (A) · Round 51 to the nearest ten = 50 (C) · Round 827 to the nearest hundred = 800 (H) · Round 499 to the nearest hundred = 500 (R)

Clue 2 (Addition): "THE GLITCH IS A LEFT HANDED TYPER"

$272 + 136 = 408$ (T) · $127 + 136 = 263$ (G) · $448 + 454 = 902$ (S) · $154 + 265 = 419$ (P) · $511 + 466 = 977$ (F) · $327 + 583 = 910$ (L) · $107 + 142 = 249$ (A) · $411 + 394 = 805$ (N) · $261 + 360 = 621$ (R) · $225 + 324 = 549$ (D) · $197 + 197 = 394$ (I) · $156 + 70 = 226$ (E) · $190 + 286 = 476$ (Y) · $311 + 232 = 543$ (H) · $407 + 314 = 721$ (C)

Clue 3 (Subtraction): "THE SYSTEM IS WEAK TO DUST BUNNIES"

$805 - 96 = 709$ (T) · $862 - 356 = 506$ (H) · $690 - 168 = 522$ (U) · $410 - 91 = 319$ (W) · $857 - 221 = 636$ (M) · $706 - 48 = 658$ (Y) · $1183 - 346 = 837$ (A) · $501 - 33 = 468$ (K) · $410 - 186 = 224$ (N) · $387 - 136 = 251$ (I) · $1032 - 399 = 633$ (O) · $821 - 53 = 768$ (E) · $615 - 327 = 288$ (B) · $986 - 152 = 834$ (S) · $826 - 314 = 512$ (D)

Clue 4 (Multiplication facts (1-12)): "THE AVATAR WEARS A CYBER HELMET"

$10 \times 12 = 120$ (T) · $12 \times 12 = 144$ (S) · $5 \times 2 = 10$ (E) · $2 \times 2 = 4$ (V) · $3 \times 3 = 9$ (W) · $10 \times 3 = 30$ (M) · $11 \times 6 = 66$ (R) · $4 \times 5 = 20$ (L) · $3 \times 1 = 3$ (B) · $7 \times 6 = 42$ (C) · $5 \times 10 = 50$ (A) · $8 \times 8 = 64$ (H) · $6 \times 6 = 36$ (Y)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Larry Page

$60 \div 5 = 12$ · $40 \div 8 = 5$ · $30 \div 3 = 10$ · $42 \div 6 = 7$ · $40 \div 5 = 8$ · $6 \div 6 = 1$ · $18 \div 9 = 2$ · $40 \div 10 = 4$ · $99 \div 9 = 11$ · $66 \div 11 = 6$ · $21 \div 7 = 3$