



The Tycoon Server Sabotage

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

Detective: _____ **Date:** _____

A mysterious Rogue Commander has infiltrated Base Sector Alpha! They hacked the central tycoon server, stealing the mega-dropper blueprints and shutting down our base shields. We must locate the culprit before they export the schematics to a rival server.

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 Commander is _____

Possible suspects

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

NAME	PRIMARY VEHICLE	TACTICAL GEAR	HOLSTER SIDE	AVATAR HELMET	SYSTEM VULNERABILITY
NoobSlayer	Hover Bike	Shield Generator	Left Hip Holster	Beret with Headset	EMP Overload
Robloxian99	Heavy Tank	Drone Controller	Left Hip Holster	Beret with Headset	EMP Overload
CipherCode	Recon Jet	Grapple Hook	Left Hip Holster	Beret with Headset	Water Hazard
Guest3001	Heavy Tank	Laser Rifle	Left Hip Holster	Night Vision Goggles	EMP Overload
TycoonKing	Armored APC	Shield Generator	Left Hip Holster	Night Vision Goggles	Rust Corrosion
MajorGamer	Stealth Heli	Laser Rifle	Right Hip Holster	Beret with Headset	EMP Overload
NexusTroop	Recon Jet	EMP Grenade	Left Hip Holster	Beret with Headset	Rust Corrosion
SwiftFalcon	Stealth Heli	EMP Grenade	Left Hip Holster	Beret with Headset	Rust Corrosion
NeonRecruit	Recon Jet	Grapple Hook	Left Hip Holster	Tactical Visor	Rust Corrosion
CommandrRex	Hover Bike	Shield Generator	Right Hip Holster	Beret with Headset	Rust Corrosion
Builderman	Armored APC	Laser Rifle	Left Hip Holster	Tactical Visor	EMP Overload
TitanMech	Armored APC	Grapple Hook	Left Hip Holster	Beret with Headset	EMP Overload
ApexRanger	Armored APC	EMP Grenade	Right Hip Holster	Tactical Visor	EMP Overload
BaseGeneral	Stealth Heli	Shield Generator	Left Hip Holster	Night Vision Goggles	Water Hazard
SgtSteel	Stealth Heli	Laser Rifle	Left Hip Holster	Beret with Headset	EMP Overload
PixelSoldier	Recon Jet	Shield Generator	Left Hip Holster	Beret with Headset	EMP Overload
DeltaSniper	Stealth Heli	Shield Generator	Left Hip Holster	Night Vision Goggles	EMP Overload
ShadowAgent	Stealth Heli	EMP Grenade	Left Hip Holster	Beret with Headset	Water Hazard
MegaBuilder	Heavy Tank	Grapple Hook	Left Hip Holster	Beret with Headset	Water Hazard
AlphaBravo	Armored APC	EMP Grenade	Left Hip Holster	Night Vision Goggles	Rust Corrosion
LaserViper	Armored APC	Laser Rifle	Left Hip Holster	Tactical Visor	Water Hazard

CLUE 1 Place value

We cracked the hijacked terminal's security lock by identifying the value of the digit in the thousands place on the server screen. This bypass revealed a secure file detailing the villain's tactical gear.

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

T																	
7000	700	8000	90	6000	300	10	8000	100	6000	600	600	1000	3000	5000	8000	90	

						T								
5000	6000	8000	70	3000	6000	7000	10	70	8000	5000	90	6000	3000	8000

			T							
100	6000	3000	7000	90	6000	400	400	8000	90	

What is the value of the 7 in 97,131?

→ **T**

What is the value of the 6 in 30,644?

→ **M**

What is the value of the 8 in 248,111?

→ **E**

What is the value of the 7 in 980,072?

→ **S**

What is the value of the 6 in 96,925?

→ **O**

What is the value of the 4 in 295,471?

→ **L**

What is the value of the 1 in 862,315?

→ **U**

What is the value of the 1 in 839,166?

→ **C**

What is the value of the 1 in 521,488?

→ **A**

What is the value of the 5 in 95,641?

→ **D**

What is the value of the 9 in 338,594?

→ **R**

What is the value of the 7 in 459,760?

→ **H**

What is the value of the 3 in 17,325?

→ **G**

What is the value of the 3 in 543,979?

→ **N**

Scratch space:

CLUE 2

To unlock the supply bunker, we added up the total weight of the armored plates delivered to the front defense line. Inside the secure chest, we found a physical clue showing how the villain's gear is holstered.

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

3544 6536 6832 9198 6638 9500 5491 6638 9625 3544 3842 9198 6536 2508 3721 8750 2508 3108 6832 9625 7088 8616 2935 8750 9198 9198 6638 6536 7268 2508 8750 3842 6638 3842 9500 9198 6536

$$2177 + 1367 = \boxed{} \rightarrow \boxed{\text{L}}$$

$3543 + 5655 = \boxed{} \rightarrow \boxed{\text{T}}$

$$4725 + 4025 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$3255 + 2236 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$1560 + 1375 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$3237 + 6263 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2500 + 4138 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4283 + 2549 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$2656 + 4612 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$1595 + 913 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1336 + 1772 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$5729 + 3896 = \boxed{} \rightarrow \boxed{0}$$

$$3478 + 3058 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$1292 + 2550 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2371 + 4717 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$3879 + 4737 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1676 + 2045 = \boxed{} \rightarrow \boxed{\text{M}}$$

Scratch space:

CLUE 3

By subtracting the fuel leaked during the getaway from the vehicle's maximum tank capacity, we calculated the escape route. Along the trail, we found a discarded report exposing the villain's system vulnerability.

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

A number line from 0 to 1000 with boxes for numbers. The number 2808 is highlighted in orange.

Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
2808	6507	8293	8293	1344	6507	4483	5202	8547	7857	3891	6507	6109	6220	2171	6507	4483	8547	5677	
3566	3341	8547	4010	6245	2072	2808	8547	6220	8293	2072	1344	5677							

$$3679 - 871 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$7858 - 3375 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$8069 - 4059 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$11506 - 2959 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$7124 - 617 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$6523 - 2957 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$8498 - 3296 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$6621 - 401 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$11198 - 2905 = \boxed{} \rightarrow \boxed{\text{L}}$$

$7732 - 2055 = \boxed{} \rightarrow \boxed{\text{D}}$

$$10150 - 2293 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$3420 - 1249 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$4209 - 2865 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$7655 - 3764 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$6546 - 4474 = \boxed{} \rightarrow \boxed{0}$$

$7659 - 4318 = \boxed{} \rightarrow \boxed{\text{Y}}$

$10859 - 4750 = \boxed{} \rightarrow \boxed{\text{S}}$

$$6666 - 421 = \boxed{} \rightarrow \boxed{\text{P}}$$

Scratch space:

CLUE 4
Fractions of a number

The command center radar could only display a small fraction of the sector grid. Finding that exact fraction of active signal towers allowed us to locate a lost helmet component dropped by the fleeing suspect.

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

B															
25	22	30	22	39	2	29	39	34	34	22	9	7	38	22	39
38	39	30	9	19	21	3	32	11	7	3	11	39	34	22	
21	40	3	3	30											

$1/4 \text{ of } 100 = \square \rightarrow \text{B}$

$2/6 \text{ of } 87 = \square \rightarrow \text{I}$

$2/10 \text{ of } 110 = \square \rightarrow \text{E}$

$3/5 \text{ of } 35 = \square \rightarrow \text{F}$

$2/10 \text{ of } 10 = \square \rightarrow \text{W}$

$1/10 \text{ of } 70 = \square \rightarrow \text{D}$

$4/8 \text{ of } 6 = \square \rightarrow \text{O}$

$4/10 \text{ of } 75 = \square \rightarrow \text{R}$

$4/10 \text{ of } 100 = \square \rightarrow \text{L}$

$1/8 \text{ of } 152 = \square \rightarrow \text{P}$

$3/4 \text{ of } 52 = \square \rightarrow \text{T}$

$1/8 \text{ of } 72 = \square \rightarrow \text{A}$

$2/6 \text{ of } 33 = \square \rightarrow \text{N}$

$2/8 \text{ of } 128 = \square \rightarrow \text{U}$

$2/4 \text{ of } 76 = \square \rightarrow \text{S}$

$2/8 \text{ of } 136 = \square \rightarrow \text{H}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

Our scout drone scanned a fraction of the enemy base's radio frequencies. Finding that exact fraction of the total wavelength count gave us the final piece of data identifying the villain's headgear.

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:

$1/10 \text{ of } 110 = \boxed{}$

$1/5 \text{ of } 5 = \boxed{}$

$2/8 \text{ of } 8 = \boxed{}$

$3/10 \text{ of } 10 = \boxed{}$

$1/3 \text{ of } 18 = \boxed{}$

$1/6 \text{ of } 72 = \boxed{}$

$2/10 \text{ of } 45 = \boxed{}$

$5/10 \text{ of } 16 = \boxed{}$

$7/8 \text{ of } 8 = \boxed{}$

$3/6 \text{ of } 10 = \boxed{}$

$4/8 \text{ of } 20 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted away in a recon jet, then blocked the base defenses with a shield generator.
2. The villain sped off on a hover bike, then blocked the base defenses with a shield generator.
3. The villain rumbled out in a heavy tank, then scaled the outer wall with a grapple hook.
4. The villain escaped inside an armored apc, then scaled the outer wall with a grapple hook.
5. The villain escaped inside an armored apc, then deployed a drone controller scout.
6. The villain zoomed off in a stealth heli, then deployed a drone controller scout.
7. The villain escaped inside an armored apc, then blocked the base defenses with a shield generator.
8. The villain sped off on a hover bike, then scaled the outer wall with a grapple hook.
9. The villain sped off on a hover bike, then disabled the local base grid with an emp grenade.
10. The villain rumbled out in a heavy tank, then blocked the base defenses with a shield generator.
11. The villain zoomed off in a stealth heli, then blasted the security lock using a laser rifle.
12. The villain zoomed off in a stealth heli, then disabled the local base grid with an emp grenade.

Answer Key

The Tycoon Server Sabotage

Culprit: TitanMech

Armored APC · Grapple Hook · Left Hip Holster · Beret with Headset · EMP Overload

Trail: Start 21 → Clue 1 20 → Clue 2 17 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE ROGUE COMMANDER DOES NOT USE DRONE CONTROLLER"

What is the value of the 7 in 97,131? = 7000 (T) · What is the value of the 6 in 30,644? = 600 (M) · What is the value of the 8 in 248,111? = 8000 (E) · What is the value of the 7 in 980,072? = 70 (S) · What is the value of the 6 in 96,925? = 6000 (O) · What is the value of the 4 in 295,471? = 400 (L) · What is the value of the 1 in 862,315? = 10 (U) · What is the value of the 1 in 839,166? = 100 (C) · What is the value of the 1 in 521,488? = 1000 (A) · What is the value of the 5 in 95,641? = 5000 (D) · What is the value of the 9 in 338,594? = 90 (R) · What is the value of the 7 in 459,760? = 700 (H) · What is the value of the 3 in 17,325? = 300 (G) · What is the value of the 3 in 543,979? = 3000 (N)

Clue 2 (Addition): "LEFT HIP HOLSTER MARK FOUND AT THE CRASH SITE"

2177 + 1367 = 3544 (L) · 3543 + 5655 = 9198 (T) · 4725 + 4025 = 8750 (A) · 3255 + 2236 = 5491 (P) · 1560 + 1375 = 2935 (D) · 3237 + 6263 = 9500 (I) · 2500 + 4138 = 6638 (H) · 4283 + 2549 = 6832 (F) · 2656 + 4612 = 7268 (C) · 1595 + 913 = 2508 (R) · 1336 + 1772 = 3108 (K) · 5729 + 3896 = 9625 (O) · 3478 + 3058 = 6536 (E) · 1292 + 2550 = 3842 (S) · 2371 + 4717 = 7088 (U) · 3879 + 4737 = 8616 (N) · 1676 + 2045 = 3721 (M)

Clue 3 (Subtraction): "VILLAIN TECH IS RUINED BY EMP OVERLOAD"

3679 - 871 = 2808 (V) · 7858 - 3375 = 4483 (N) · 8069 - 4059 = 4010 (M) · 11506 - 2959 = 8547 (E) · 7124 - 617 = 6507 (I) · 6523 - 2957 = 3566 (B) · 8498 - 3296 = 5202 (T) · 6621 - 401 = 6220 (R) · 11198 - 2905 = 8293 (L) · 7732 - 2055 = 5677 (D) · 10150 - 2293 = 7857 (C) · 3420 - 1249 = 2171 (U) · 4209 - 2865 = 1344 (A) · 7655 - 3764 = 3891 (H) · 6546 - 4474 = 2072 (O) · 7659 - 4318 = 3341 (Y) · 10859 - 4750 = 6109 (S) · 6666 - 421 = 6245 (P)

Clue 4 (Fractions of a number): "BERET WITH HEADSET STRAP FOUND ON THE FLOOR"

1/4 of 100 = 25 (B) · 2/6 of 87 = 29 (I) · 2/10 of 110 = 22 (E) · 3/5 of 35 = 21 (F) · 2/10 of 10 = 2 (W) · 1/10 of 70 = 7 (D) · 4/8 of 6 = 3 (O) · 4/10 of 75 = 30 (R) · 4/10 of 100 = 40 (L) · 1/8 of 152 = 19 (P) · 3/4 of 52 = 39 (T) · 1/8 of 72 = 9 (A) · 2/6 of 33 = 11 (N) · 2/8 of 128 = 32 (U) · 2/4 of 76 = 38 (S) · 2/8 of 136 = 34 (H)

Clue 5 (Fractions of a number): surviving statement is box 4 → TitanMech

1/10 of 110 = 11 · 1/5 of 5 = 1 · 2/8 of 8 = 2 · 3/10 of 10 = 3 · 1/3 of 18 = 6 · 1/6 of 72 = 12 · 2/10 of 45 = 9 · 5/10 of 16 = 8 · 7/8 of 8 = 7 · 3/6 of 10 = 5 · 4/8 of 20 = 10