



The Great Tycoon Sabotage

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

Detective: _____ **Date:** _____

Red alert! The legendary Big Papi clan has breached the defenses of our elite ic0mu military tycoon. A rogue player has bypassed our droppers, shut down the security lasers, and escaped with our classified base files. We must analyze the server logs to identify the culprit!

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 Infiltrator is _____

Possible suspects

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

NAME	CLASS SPECIALTY	EQUIPPED GEAR	MOVEMENT HABIT	AVATAR HAT	SYSTEM COUNTER
RoboTrooper	Heavy Demolition	Katana	Jump Spams	Spiky Hair	Water Balloon
TixCollector	Heavy Demolition	Shield Potion	Strafes Left	Spiky Hair	Water Balloon
AlphaSquad	Plasma Gunner	Katana	Strafes Left	Valkyrie Helmet	Water Balloon
GoldenValk	Drone Pilot	Speed Coil	Strafes Left	Roblox Cap	Water Balloon
BaseInfiltrator	Laser Sniper	Gravity Coil	Strafes Left	Valkyrie Helmet	Water Balloon
ShadowBlox	Heavy Demolition	Speed Coil	Jump Spams	Valkyrie Helmet	Water Balloon
MegaTycoon	Drone Pilot	Speed Coil	Jump Spams	Valkyrie Helmet	Freeze Ray
SniperGhost	Laser Sniper	Shield Potion	Strafes Left	Spiky Hair	Water Balloon
BigPapiBoss	Stealth Agent	Katana	Jump Spams	Valkyrie Helmet	EMP Grenades
FortressDefender	Stealth Agent	Gravity Coil	Strafes Left	Spiky Hair	Water Balloon
SwordMaster	Drone Pilot	Speed Coil	Strafes Left	Spiky Hair	Water Balloon
RedLeader	Drone Pilot	Jetpack	Strafes Left	Valkyrie Helmet	Freeze Ray
BloxSoldier	Laser Sniper	Jetpack	Strafes Left	Spiky Hair	EMP Grenades
ic0muAgent	Plasma Gunner	Gravity Coil	Jump Spams	Spiky Hair	Water Balloon
BlueCommander	Drone Pilot	Gravity Coil	Jump Spams	Roblox Cap	Water Balloon
SpyX	Heavy Demolition	Speed Coil	Jump Spams	Roblox Cap	EMP Grenades
ProBuilder	Heavy Demolition	Speed Coil	Jump Spams	Spiky Hair	Freeze Ray
GamerPapi	Laser Sniper	Shield Potion	Jump Spams	Valkyrie Helmet	Water Balloon
ClanWrecker	Drone Pilot	Katana	Strafes Left	Spiky Hair	Water Balloon
DropperKing	Drone Pilot	Gravity Coil	Strafes Left	Valkyrie Helmet	EMP Grenades
PixelGunner	Stealth Agent	Jetpack	Jump Spams	Spiky Hair	Freeze Ray

Subtraction

An ic0mu engineer counts the remaining rockets in the main depot. By subtracting the missing crates from the total stock, they track the thief's escape path.

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

8875 3298 7223 3521 4567 1667 1667 7976 4567 3202 3512 6576 7223 2354 3202 6576 8875

3298 7976 3521 7223 7976 1208 7976 8875 7976 3202 7976

$13240 - 4365 = \boxed{} \rightarrow \boxed{\text{T}}$

$$3197 - 843 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$10834 - 3611 = \boxed{} \rightarrow \boxed{\text{E}}$$

$10311 - 2335 = \boxed{} \rightarrow \mathbf{A}$

$$3422 - 2214 = \boxed{} \rightarrow \boxed{\text{K}}$$

$6925 - 2358 = \boxed{} \rightarrow \boxed{}$

$$3907 - 2240 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$4709 - 1507 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$6382 - 2870 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$6192 - 2671 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$11200 - 4624 = \boxed{} \rightarrow \boxed{0}$$

$$6196 - 2898 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 2 Addition

We scan the server logs to add up the extra coins generated by the defense droppers. The sum reveals the exact IP address used by the Big Papi spy.

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

T			T					T						T					
7103	3769	8607	7103	4360	6676	2262	8607	7103	5583	8768	5223	2916	2763	7103	6676	4360	2822	8607	2763

			T	T						
5223	8607	2822	7103	7103	5583	5981	5583	5981	2262	8607

$$3413 + 3690 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2720 + 3261 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$1992 + 1777 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$3774 + 4994 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1189 + 1073 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$975 + 1847 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$5689 + 2918 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2369 + 3214 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$952 + 1811 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2395 + 2828 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2016 + 900 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$2394 + 1966 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2843 + 3833 = \boxed{} \rightarrow \boxed{\text{R}}$$

Scratch space:

CLUE 3
Multiplication facts (1-12)

The radar screen displays rows of attacking clan drones. Multiplying the columns of ships helps us calculate the exact sector where the suspect is hiding.

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

T								T		T									
24	56	120	44	42	8	120	24	18	24	42	96	96	44	72	120	42	80		

T						T													
24	18	42	72	42	24	120	8	84	42	96	96	18	18	90					

$6 \times 4 = \square \rightarrow$ T	$6 \times 3 = \square \rightarrow$ O	$12 \times 7 = \square \rightarrow$ B
$6 \times 12 = \square \rightarrow$ W	$7 \times 6 = \square \rightarrow$ A	$11 \times 4 = \square \rightarrow$ Y
$7 \times 8 = \square \rightarrow$ H	$10 \times 9 = \square \rightarrow$ N	$10 \times 12 = \square \rightarrow$ E
$8 \times 1 = \square \rightarrow$ R	$12 \times 8 = \square \rightarrow$ L	$10 \times 8 = \square \rightarrow$ K

Scratch space:

CLUE 4
Fractions of a number

The command center decodes a corrupted video feed. Only a fraction of the total frames are clear enough to reveal a clue about the thief's avatar style.

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

W																		
4	30	2	30	39	30	25	39	30	2	19	20	18	30	21	32	31	12	16
11	22	31	24	22	39	39	11	30	21	25	30	37	30					

$4/10 \text{ of } 10 = \square \rightarrow \boxed{\text{W}}$

$2/4 \text{ of } 50 = \square \rightarrow \boxed{\text{C}}$

$1/5 \text{ of } 195 = \square \rightarrow \boxed{\text{T}}$

$2/10 \text{ of } 95 = \square \rightarrow \boxed{\text{B}}$

$3/6 \text{ of } 22 = \square \rightarrow \boxed{\text{H}}$

$1/5 \text{ of } 185 = \square \rightarrow \boxed{\text{N}}$

$4/8 \text{ of } 32 = \square \rightarrow \boxed{\text{Y}}$

$4/6 \text{ of } 36 = \square \rightarrow \boxed{\text{R}}$

$2/3 \text{ of } 27 = \square \rightarrow \boxed{\text{U}}$

$1/4 \text{ of } 88 = \square \rightarrow \boxed{\text{A}}$

$3/8 \text{ of } 80 = \square \rightarrow \boxed{\text{E}}$

$1/3 \text{ of } 6 = \square \rightarrow \boxed{\text{D}}$

$1/10 \text{ of } 120 = \square \rightarrow \boxed{\text{K}}$

$2/3 \text{ of } 48 = \square \rightarrow \boxed{\text{P}}$

$1/5 \text{ of } 105 = \square \rightarrow \boxed{\text{S}}$

$2/6 \text{ of } 93 = \square \rightarrow \boxed{\text{I}}$

$2/8 \text{ of } 80 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

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

We check the power levels of the backup generators. Only a small fraction of the grid is still offline, pointing us directly to the intruder's hidden weakness.

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:

$5/10 \text{ of } 8 = \boxed{}$

$1/3 \text{ of } 15 = \boxed{}$

$3/10 \text{ of } 30 = \boxed{}$

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

$1/8 \text{ of } 8 = \boxed{}$

$5/6 \text{ of } 12 = \boxed{}$

$6/8 \text{ of } 4 = \boxed{}$

$1/5 \text{ of } 40 = \boxed{}$

$3/10 \text{ of } 40 = \boxed{}$

$2/8 \text{ of } 24 = \boxed{}$

$1/10 \text{ of } 20 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain stole the mega jetpack blueprints, then teleported using a stealth glitch.
2. The villain stole the golden tycoon trophy, then zoomed away with a speed coil.
3. The villain stole the mega jetpack blueprints, then shielded their escape with a potion.
4. The villain stole the golden tycoon trophy, then teleported using a stealth glitch.
5. The villain locked down the spawn pad, then flew over the wall with a jetpack.
6. The villain hacked the primary ore dropper, then shielded their escape with a potion.
7. The villain stole the mega jetpack blueprints, then bounced away using a gravity coil.
8. The villain locked down the spawn pad, then teleported using a stealth glitch.
9. The villain hacked the primary ore dropper, then teleported using a stealth glitch.
10. The villain stole the golden tycoon trophy, then flew over the wall with a jetpack.
11. The villain disabled the base lasers, then flew over the wall with a jetpack.
12. The villain stole the golden tycoon trophy, then bounced away using a gravity coil.

Answer Key

The Great Tycoon Sabotage

Culprit: FortressDefender

Stealth Agent · Gravity Coil · Strafes Left · Spiky Hair · Water Balloon

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE VILLAIN DOES NOT HAVE A KATANA"

13240 - 4365 = 8875 (T) · 3197 - 843 = 2354 (S) · 10834 - 3611 = 7223 (E) · 10311 - 2335 = 7976 (A) · 3422 - 2214 = 1208 (K) · 6925 - 2358 = 4567 (I) · 3907 - 2240 = 1667 (L) · 4709 - 1507 = 3202 (N) · 6382 - 2870 = 3512 (D) · 6192 - 2671 = 3521 (V) · 11200 - 4624 = 6576 (O) · 6196 - 2898 = 3298 (H)

Clue 2 (Addition): "THE TARGET ONLY STRAFES LEFT TO DODGE"

3413 + 3690 = 7103 (T) · 2720 + 3261 = 5981 (D) · 1992 + 1777 = 3769 (H) · 3774 + 4994 = 8768 (N) · 1189 + 1073 = 2262 (G) · 975 + 1847 = 2822 (F) · 5689 + 2918 = 8607 (E) · 2369 + 3214 = 5583 (O) · 952 + 1811 = 2763 (S) · 2395 + 2828 = 5223 (L) · 2016 + 900 = 2916 (Y) · 2394 + 1966 = 4360 (A) · 2843 + 3833 = 6676 (R)

Clue 3 (Multiplication facts (1-12)): "THEY ARE TOTALLY WEAK TO A WATER BALLOON"

$6 \times 4 = 24$ (T) · $6 \times 3 = 18$ (O) · $12 \times 7 = 84$ (B) · $6 \times 12 = 72$ (W) · $7 \times 6 = 42$ (A) · $11 \times 4 = 44$ (Y) · $7 \times 8 = 56$ (H) · $10 \times 9 = 90$ (N) · $10 \times 12 = 120$ (E) · $8 \times 1 = 8$ (R) · $12 \times 8 = 96$ (L) · $10 \times 8 = 80$ (K)

Clue 4 (Fractions of a number): "WE DETECTED BLUE SPIKY HAIR AT THE SCENE"

$\frac{4}{10}$ of 10 = 4 (W) · $\frac{2}{4}$ of 50 = 25 (C) · $\frac{1}{5}$ of 195 = 39 (T) · $\frac{2}{10}$ of 95 = 19 (B) · $\frac{3}{6}$ of 22 = 11 (H) · $\frac{1}{5}$ of 185 = 37 (N) · $\frac{4}{8}$ of 32 = 16 (Y) · $\frac{4}{6}$ of 36 = 24 (R) · $\frac{2}{3}$ of 27 = 18 (U) · $\frac{1}{4}$ of 88 = 22 (A) · $\frac{3}{8}$ of 80 = 30 (E) · $\frac{1}{3}$ of 6 = 2 (D) · $\frac{1}{10}$ of 120 = 12 (K) · $\frac{2}{3}$ of 48 = 32 (P) · $\frac{1}{5}$ of 105 = 21 (S) · $\frac{2}{6}$ of 93 = 31 (I) · $\frac{2}{8}$ of 80 = 20 (L)

Clue 5 (Fractions of a number): surviving statement is box 7 → FortressDefender

$\frac{5}{10}$ of 8 = 4 · $\frac{1}{3}$ of 15 = 5 · $\frac{3}{10}$ of 30 = 9 · $\frac{1}{2}$ of 22 = 11 · $\frac{1}{8}$ of 8 = 1 · $\frac{5}{6}$ of 12 = 10 · $\frac{6}{8}$ of 4 = 3 · $\frac{1}{5}$ of 40 = 8 · $\frac{3}{10}$ of 40 = 12 · $\frac{2}{8}$ of 24 = 6 · $\frac{1}{10}$ of 20 = 2