



The Loft Sabotage

Grade 3 math · Place value, Subtraction, Rounding, Skip counting, Division · Reading level grades 5-6

Detective: _____ Date: _____

The Shilo and Bros crew just finished building their ultimate custom Minecraft server, but someone snuck into the gaming loft and deleted the world save file! Now, a mysterious impostor gamer is holding the backup file hostage. We have to decode the clues to find out who did it before the stream starts!

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 impostor gamer is _____

Possible suspects

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

NAME	MAIN ABILITY	LOOT GEAR	CONTROLLER GRIP	HEAD ACCESSORY	WEAKNESS
Ian	prop disguise	lucky block	righty grip	spiky gamer hair	water bucket
Josiah	prop disguise	gold apple	lefty grip	blue beanie	water bucket
Judah	laser shield	grappling hook	lefty grip	blue beanie	banana peel
Brody	speedrunner speed	lucky block	lefty grip	spiky gamer hair	squeaky toy
Cole	portal blaster	lucky block	lefty grip	blue beanie	banana peel
Daniel	super jump hack	lucky block	lefty grip	blue beanie	banana peel
Toby	portal blaster	redstone bomb	lefty grip	blue beanie	banana peel
Zach	laser shield	lucky block	lefty grip	hoodie hood up	banana peel
Leo	portal blaster	lucky block	lefty grip	blue beanie	water bucket
Caleb	super jump hack	redstone bomb	lefty grip	hoodie hood up	banana peel
Trixie	laser shield	redstone bomb	righty grip	blue beanie	water bucket
Luke	speedrunner speed	lucky block	righty grip	blue beanie	banana peel
Shilo	speedrunner speed	diamond sword	righty grip	hoodie hood up	squeaky toy
Wyatt	portal blaster	grappling hook	righty grip	blue beanie	banana peel
Gabe	super jump hack	lucky block	righty grip	blue beanie	banana peel
Max	portal blaster	diamond sword	lefty grip	blue beanie	squeaky toy
Ethan	laser shield	diamond sword	righty grip	blue beanie	banana peel
Jax	speedrunner speed	diamond sword	lefty grip	hoodie hood up	squeaky toy
Micah	laser shield	diamond sword	righty grip	hoodie hood up	water bucket
Colin	super jump hack	diamond sword	lefty grip	blue beanie	banana peel
Elijah	prop disguise	grappling hook	righty grip	hoodie hood up	banana peel

CLUE 1 Place value

We hacked into the lobby terminal. The computer's security code uses a specific digit in the hundreds place to unlock the first clue.

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

T																	T
900	700	1000	4000	300	20	20	7000	300	10	70	2000	1000	500	10	2000	900	

40	500	1000	7000	70	300	7000	8000	2000	10	70	500	800	2000	50	70

What is the value of the 9 in 2,957? → **T**

What is the value of the 8 in 8,233? → **M**

What is the value of the 7 in 1,970? → **D**

What is the value of the 7 in 733? → **H**

What is the value of the 7 in 7,636? → **A**

What is the value of the 3 in 4,397? → **I**

What is the value of the 1 in 319? → **N**

What is the value of the 5 in 952? → **R**

What is the value of the 2 in 2,907? → **O**

What is the value of the 2 in 524? → **L**

What is the value of the 5 in 2,592? → **S**

What is the value of the 4 in 4,001? → **V**

What is the value of the 4 in 5,941? → **U**

What is the value of the 8 in 1,851? → **W**

What is the value of the 1 in 71,482? → **E**

Scratch space:

CLUE 2

To open the locked storage chest, the crew needs to calculate how many gaming energy drinks are left after Marcus drank his share.

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

The diagram consists of two rows of boxes. The top row has 18 boxes, and the bottom row has 4 boxes. Below each box is a number. The boxes are arranged in a sequence, and some boxes are shaded orange and contain the letter 'T'.

Box	Number	Shaded	Letter
1	571	Yes	T
2	273	No	
3	339	No	
4	554	No	
5	328	No	
6	554	No	
7	807	No	
8	339	No	
9	187	No	
10	571	Yes	T
11	273	No	
12	598	No	
13	554	No	
14	598	No	
15	843	No	
16	339	No	
17	642	No	
18	571	Yes	T
19	878	No	
20	563	No	
21	345	No	
22	761	No	
23	807	No	

909 - 338 = → **T**

$$761 - 163 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$360 - 21 = \boxed{} \rightarrow \boxed{\text{E}}$$

$1000 - 358 = \square \rightarrow \boxed{\text{F}}$

$$1182 - 339 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$915 - 361 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$622 - 349 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$510 - 323 = \boxed{} \rightarrow \boxed{\text{C}}$$

$632 - 69 = \boxed{} \rightarrow \boxed{\text{G}}$

$$619 - 291 = \boxed{} \rightarrow \boxed{\text{U}}$$

$980 - 219 = \boxed{} \rightarrow \boxed{1}$

$$1167 - 360 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$691 - 346 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1033 - 155 = \boxed{} \rightarrow \boxed{\text{Y}}$$

Scratch space:

CLUE 3 Rounding

Our radar scanner shows the villain's signal strength, but the screen only displays numbers rounded to the nearest ten.

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

T																	
200	80	60	7000	600	4000	4000	800	600	9000	300	4000	600	30	300	500	9000	800
70	800	9000	800	9000	800	30	60	60	4000								

Round 191 to the nearest hundred → **T**

Round 479 to the nearest hundred → **O**

Round 4,248 to the nearest thousand → **L**

Round 68 to the nearest ten → **B**

Round 57 to the nearest ten → **E**

Round 33 to the nearest ten → **P**

Round 6,524 to the nearest thousand → **V**

Round 83 to the nearest ten → **H**

Round 556 to the nearest hundred → **I**

Round 8,615 to the nearest thousand → **N**

Round 290 to the nearest hundred → **S**

Round 783 to the nearest hundred → **A**

Scratch space:

CLUE 4 Skip counting

Micah noticed a pattern of neon footprints on the stairs, skip-counting by fives to find the hidden attic entrance.

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

W																	
24	16	36	14	110	45	21	8	60	65	110	16	60	16	8	45	39	16
8	26	26	80	16	140	18	16	45	16								

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **T**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **B**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 → **C**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **L**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 → **U**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **N**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **O**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **F**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45

→

I

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100

→

H

Scratch space:

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

Elijah found a crate of mystery loot boxes and needs to divide them equally among the team members to find the final clue slip.

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:

$55 \div 5 = \boxed{}$

$60 \div 12 = \boxed{}$

$96 \div 8 = \boxed{}$

$6 \div 3 = \boxed{}$

$33 \div 11 = \boxed{}$

$21 \div 3 = \boxed{}$

$16 \div 2 = \boxed{}$

$54 \div 9 = \boxed{}$

$3 \div 3 = \boxed{}$

$9 \div 1 = \boxed{}$

$90 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain transforms into a nearby cardboard box, then detonates a dangerous redstone bomb.
2. The villain hacks the gravity settings to jump super high, then swings away using a grappling hook.
3. The villain hacks the gravity settings to jump super high, then swings a pixelated diamond sword.
4. The villain shoots a glowing portal, then tosses a chaotic lucky block.
5. The villain activates a glowing neon shield, then swings away using a grappling hook.
6. The villain activates a glowing neon shield, then eats a glowing gold apple.
7. The villain transforms into a nearby cardboard box, then swings a pixelated diamond sword.
8. The villain speeds through the spawn lobby, then tosses a chaotic lucky block.
9. The villain activates a glowing neon shield, then tosses a chaotic lucky block.
10. The villain shoots a glowing portal, then eats a glowing gold apple.
11. The villain shoots a glowing portal, then detonates a dangerous redstone bomb.
12. The villain hacks the gravity settings to jump super high, then tosses a chaotic lucky block.

Answer Key

The Loft Sabotage

Culprit: Cole

portal blaster · lucky block · lefty grip · blue beanie · banana peel

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A DIAMOND SWORD"

What is the value of the 9 in 2,957? = 900 (T) · What is the value of the 8 in 8,233? = 8000 (M) · What is the value of the 7 in 1,970? = 70 (D) · What is the value of the 7 in 733? = 700 (H) · What is the value of the 7 in 7,636? = 7000 (A) · What is the value of the 3 in 4,397? = 300 (I) · What is the value of the 1 in 319? = 10 (N) · What is the value of the 5 in 952? = 50 (R) · What is the value of the 2 in 2,907? = 2000 (O) · What is the value of the 2 in 524? = 20 (L) · What is the value of the 5 in 2,592? = 500 (S) · What is the value of the 4 in 4,001? = 4000 (V) · What is the value of the 4 in 5,941? = 40 (U) · What is the value of the 8 in 1,851? = 800 (W) · What is the value of the 1 in 71,482? = 1000 (E)

Clue 2 (Subtraction): "THE SUSPECT HAS A LEFTY GRIP"

909 - 338 = 571 (T) · 761 - 163 = 598 (A) · 360 - 21 = 339 (E) · 1000 - 358 = 642 (F) · 1182 - 339 = 843 (L) · 915 - 361 = 554 (S) · 622 - 349 = 273 (H) · 510 - 323 = 187 (C) · 632 - 69 = 563 (G) · 619 - 291 = 328 (U) · 980 - 219 = 761 (I) · 1167 - 360 = 807 (P) · 691 - 346 = 345 (R) · 1033 - 155 = 878 (Y)

Clue 3 (Rounding): "THE VILLAIN SLIPS ON A BANANA PEEL"

Round 191 to the nearest hundred = 200 (T) · Round 479 to the nearest hundred = 500 (O) · Round 4,248 to the nearest thousand = 4000 (L) · Round 68 to the nearest ten = 70 (B) · Round 57 to the nearest ten = 60 (E) · Round 33 to the nearest ten = 30 (P) · Round 6,524 to the nearest thousand = 7000 (V) · Round 83 to the nearest ten = 80 (H) · Round 556 to the nearest hundred = 600 (I) · Round 8,615 to the nearest thousand = 9000 (N) · Round 290 to the nearest hundred = 300 (S) · Round 783 to the nearest hundred = 800 (A)

Clue 4 (Skip counting): "WE FOUND A BLUE BEANIE AT THE SCENE"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (B) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (H)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Cole

55 ÷ 5 = 11 · 60 ÷ 12 = 5 · 96 ÷ 8 = 12 · 6 ÷ 3 = 2 · 33 ÷ 11 = 3 · 21 ÷ 3 = 7 · 16 ÷ 2 = 8 · 54 ÷ 9 = 6 · 3 ÷ 3 = 1 · 9 ÷ 1 = 9 · 90 ÷ 9 = 10