The Mystery of Outpost Zeta

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

Detective: _____ **Date:** _____

A mystery saboteur snuck into Outpost Zeta and swapped the vital energy cores! Clone Troopers and Jedi must investigate the clues to discover who interrupted the base operations.

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 Saboteur is _____

Possible suspects

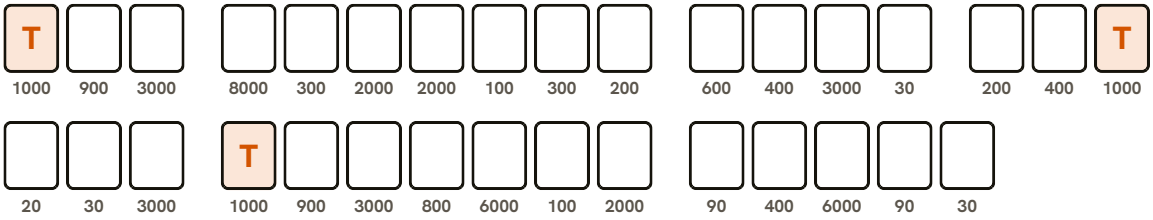
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIALTY ATTACK	TACTICAL GEAR	GAUNTLET HAND	HELMET CREST	VULNERABILITY
Ahsoka	Droid Hack	Grapple Line	Right Gauntlet	Red Crest	EMP Pulse
Rex	Droid Hack	Electro Staff	Right Gauntlet	Red Crest	Loud Siren
Plo Koon	Saber Spin	Sonic Blaster	Right Gauntlet	Blue Crest	Loud Siren
Gregor	Droid Hack	Thermal Bomb	Right Gauntlet	Red Crest	Loud Siren
Fives	Shield Dome	Electro Staff	Left Gauntlet	Red Crest	Loud Siren
Tech	Droid Hack	Sonic Blaster	Right Gauntlet	Red Crest	Loud Siren
Yoda	Droid Hack	Smoke Canister	Right Gauntlet	Red Crest	Loud Siren
Hardcase	Force Push	Electro Staff	Left Gauntlet	Gold Crest	EMP Pulse
Mace Windu	Force Push	Grapple Line	Right Gauntlet	Red Crest	Loud Siren
Cody	Saber Spin	Grapple Line	Left Gauntlet	Red Crest	Loud Siren
Kix	Force Push	Thermal Bomb	Right Gauntlet	Blue Crest	Bright Flash
Waxer	Saber Spin	Smoke Canister	Right Gauntlet	Blue Crest	Loud Siren
Obi Wan	Shield Dome	Thermal Bomb	Left Gauntlet	Red Crest	Bright Flash
Jesse	Force Push	Grapple Line	Right Gauntlet	Gold Crest	Bright Flash
Wrecker	Jetpack Jump	Electro Staff	Left Gauntlet	Blue Crest	EMP Pulse
Hunter	Jetpack Jump	Smoke Canister	Right Gauntlet	Red Crest	Bright Flash
Anakin	Saber Spin	Electro Staff	Left Gauntlet	Red Crest	Loud Siren
Wolffe	Jetpack Jump	Smoke Canister	Left Gauntlet	Red Crest	Loud Siren
Tup	Jetpack Jump	Sonic Blaster	Right Gauntlet	Blue Crest	EMP Pulse
Kit Fisto	Force Push	Smoke Canister	Left Gauntlet	Red Crest	EMP Pulse
Boil	Saber Spin	Grapple Line	Left Gauntlet	Gold Crest	Loud Siren

CLUE 1 Place value

Commander Cody checked the digital console to read the target digit in the power grid readout.

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



What is the value of the 1 in 21,832? ☐ → T

What is the value of the 4 in 469? ☐ → O

What is the value of the 3 in 3,851? ☐ → E

What is the value of the 2 in 2,776? ☐ → L

What is the value of the 2 in 240? ☐ → N

What is the value of the 8 in 829? ☐ → R

What is the value of the 6 in 96,331? ☐ → M

What is the value of the 6 in 9,672? ☐ → D

What is the value of the 9 in 892? ☐ → B

What is the value of the 3 in 7,831? ☐ → S

What is the value of the 3 in 397? ☐ → I

What is the value of the 9 in 960? ☐ → H

What is the value of the 2 in 3,920? ☐ → U

What is the value of the 8 in 8,297? ☐ → V

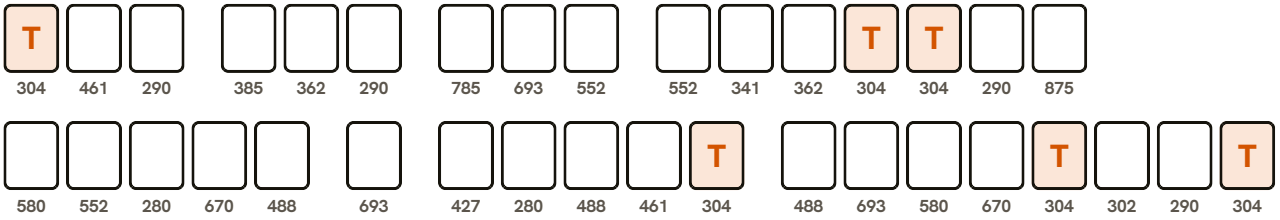
What is the value of the 1 in 2,147? ☐ → A

Scratch space:

CLUE 2 Addition

Ahsoka tallied up the extra supply crates brought in by the two transport ships.

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



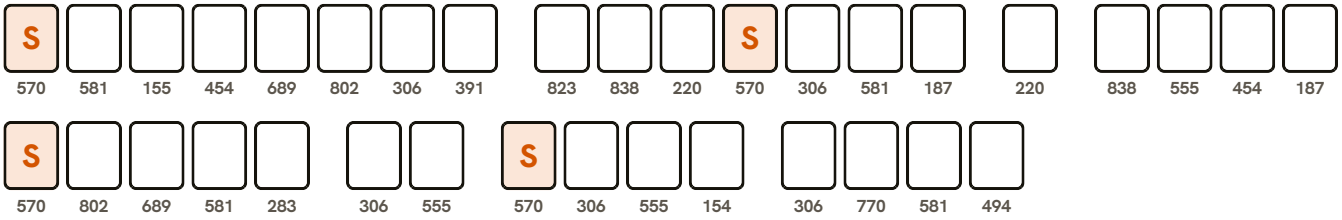
136 + 168 = ☐ → T	408 + 467 = ☐ → D	333 + 452 = ☐ → W
207 + 281 = ☐ → G	411 + 282 = ☐ → A	132 + 148 = ☐ → I
186 + 104 = ☐ → E	285 + 267 = ☐ → S	202 + 225 = ☐ → R
127 + 214 = ☐ → P	154 + 307 = ☐ → H	150 + 152 = ☐ → L
286 + 384 = ☐ → N	124 + 261 = ☐ → F	178 + 402 = ☐ → U
218 + 144 = ☐ → O		

Scratch space:

CLUE 3 Subtraction

> Rex counted how many energy cells remained after the surprise battle at the outpost.

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



868 - 298 = ☐ → S

1132 - 330 = ☐ → I

478 - 323 = ☐ → C

730 - 41 = ☐ → R

749 - 255 = ☐ → M

862 - 39 = ☐ → B

809 - 355 = ☐ → U

458 - 271 = ☐ → D

869 - 99 = ☐ → H

711 - 320 = ☐ → Y

642 - 359 = ☐ → N

617 - 311 = ☐ → T

315 - 95 = ☐ → A

658 - 103 = ☐ → O

279 - 125 = ☐ → P

713 - 132 = ☐ → E

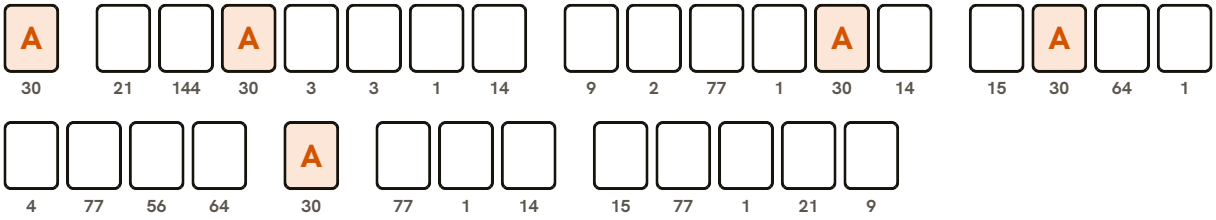
1160 - 322 = ☐ → L

Scratch space:

CLUE 4 Multiplication facts (1-12)

General Kenobi calculated the total droids by multiplying the rows in the marching grid.

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



6 × 5 = ☐ → A

8 × 7 = ☐ → O

8 × 8 = ☐ → M

12 × 12 = ☐ → N

5 × 3 = ☐ → C

7 × 2 = ☐ → D

1 × 2 = ☐ → H

1 × 1 = ☐ → E

9 × 1 = ☐ → T

1 × 4 = ☐ → F

3 × 1 = ☐ → G

7 × 3 = ☐ → S

7 × 11 = ☐ → R

Scratch space:

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

> Captain Rex divided the spare blasters equally among the defense squads.

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:

24 ÷ 12 = ☐	5 ÷ 5 = ☐	5 ÷ 1 = ☐	50 ÷ 5 = ☐	9 ÷ 3 = ☐
28 ÷ 4 = ☐	36 ÷ 3 = ☐	12 ÷ 3 = ☐	90 ÷ 10 = ☐	60 ÷ 10 = ☐
11 ÷ 1 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain overrode doors with a droid hack, then distracted guards with a sonic blaster.
2. The villain overrode doors with a droid hack, then swept past sentries with an electro staff.
3. The villain soared away with a jetpack jump, then swept past sentries with an electro staff.
4. The villain soared away with a jetpack jump, then vanished into thin air with a smoke canister.
5. The villain overrode doors with a droid hack, then vanished into thin air with a smoke canister.
6. The villain blocked fire with a shield dome, then scaled the wall with a grapple line.
7. The villain blocked fire with a shield dome, then vanished into thin air with a smoke canister.
8. The villain blasted through with a force push, then scaled the wall with a grapple line.
9. The villain blocked fire with a shield dome, then swept past sentries with an electro staff.
10. The villain overrode doors with a droid hack, then scaled the wall with a grapple line.
11. The villain deflected bolts with a saber spin, then cleared debris with a thermal bomb.
12. The villain blasted through with a force push, then distracted guards with a sonic blaster.

TEACHER / PARENT

Answer Key

The Mystery of Outpost Zeta

Culprit: Mace Windu

Force Push · Grapple Line · Right Gauntlet · Red Crest · Loud Siren

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE THERMAL BOMBS"

What is the value of the 1 in 21,832? = 1000 (T) · What is the value of the 4 in 469? = 400 (O) · What is the value of the 3 in 3,851? = 3000 (E) · What is the value of the 2 in 2,776? = 2000 (L) · What is the value of the 2 in 240? = 200 (N) · What is the value of the 8 in 829? = 800 (R) · What is the value of the 6 in 96,331? = 6000 (M) · What is the value of the 6 in 9,672? = 600 (D) · What is the value of the 9 in 892? = 90 (B) · What is the value of the 3 in 7,831? = 30 (S) · What is the value of the 3 in 397? = 300 (I) · What is the value of the 9 in 960? = 900 (H) · What is the value of the 2 in 3,920? = 20 (U) · What is the value of the 8 in 8,297? = 8000 (V) · What is the value of the 1 in 2,147? = 100 (A)

Clue 2 (Addition): "THE FOE WAS SPOTTED USING A RIGHT GAUNTLET"

136 + 168 = 304 (T) · 408 + 467 = 875 (D) · 333 + 452 = 785 (W) · 207 + 281 = 488 (G) · 411 + 282 = 693 (A) · 132 + 148 = 280 (I) · 186 + 104 = 290 (E) · 285 + 267 = 552 (S) · 202 + 225 = 427 (R) · 127 + 214 = 341 (P) · 154 + 307 = 461 (H) · 150 + 152 = 302 (L) · 286 + 384 = 670 (N) · 124 + 261 = 385 (F) · 178 + 402 = 580 (U) · 218 + 144 = 362 (O)

Clue 3 (Subtraction): "SECURITY BLASTED A LOUD SIREN TO STOP THEM"

868 - 298 = 570 (S) · 1132 - 330 = 802 (I) · 478 - 323 = 155 (C) · 730 - 41 = 689 (R) · 749 - 255 = 494 (M) · 862 - 39 = 823 (B) · 809 - 355 = 454 (U) · 458 - 271 = 187 (D) · 869 - 99 = 770 (H) · 711 - 320 = 391 (Y) · 642 - 359 = 283 (N) · 617 - 311 = 306 (T) · 315 - 95 = 220 (A) · 658 - 103 = 555 (O) · 279 - 125 = 154 (P) · 713 - 132 = 581 (E) · 1160 - 322 = 838 (L)

Clue 4 (Multiplication facts (1-12)): "A SNAGGED THREAD CAME FROM A RED CREST"

6 × 5 = 30 (A) · 8 × 7 = 56 (O) · 8 × 8 = 64 (M) · 12 × 12 = 144 (N) · 5 × 3 = 15 (C) · 7 × 2 = 14 (D) · 1 × 2 = 2 (H) · 1 × 1 = 1 (E) · 9 × 1 = 9 (T) · 1 × 4 = 4 (F) · 3 × 1 = 3 (G) · 7 × 3 = 21 (S) · 7 × 11 = 77 (R)

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

24 ÷ 12 = 2 · 5 ÷ 5 = 1 · 5 ÷ 1 = 5 · 50 ÷ 5 = 10 · 9 ÷ 3 = 3 · 28 ÷ 4 = 7 · 36 ÷ 3 = 12 · 12 ÷ 3 = 4 · 90 ÷ 10 = 9 · 60 ÷ 10 = 6 · 11 ÷ 1 = 11