The Great Space-Pirate Cyber Hijack

Grade 6 math · Place value, Addition, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

During the championship tournament at Sector Nine, an unexpected blackout hit the main stadium! A mysterious figure hacked the station core and made off with the golden trophy. Detective, use the math evidence left behind to uncover who did it!

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 Cosmic Hijacker is _____

Possible suspects

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

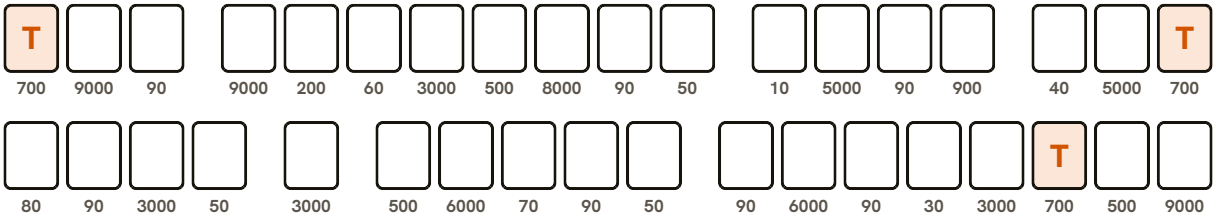
NAME	SPECIAL MOVE	COSMIC GEAR	DOMINANT HAND	HEAD TRAIT	VULNERABILITY
Meowtron	Rocket Sprint	Thruster Pack	Right Handed	Emerald Scaly Spikes	Water Splash
Commander Tail	Warp Tackle	Thruster Pack	Left Handed	Silver Wire Locks	Water Splash
Bucky Blocks	Sonic Meow	Thruster Pack	Left Handed	Silver Wire Locks	Catnip Mist
Salty Claw	Sonic Meow	Crystal Horn	Left Handed	Silver Wire Locks	Water Splash
Glitch McSqueak	Sonic Meow	Hologram Cloak	Left Handed	Emerald Scaly Spikes	Water Splash
Anchor Ann	Sonic Meow	Cyber Eyepatch	Left Handed	Emerald Scaly Spikes	Water Splash
Barnaby Blocks	Rocket Sprint	Gravity Boots	Right Handed	Silver Wire Locks	Magnetic Pulse
Dino Spike	Sonic Meow	Crystal Horn	Left Handed	Silver Wire Locks	Catnip Mist
Starlight Sam	Plasma Shield	Gravity Boots	Right Handed	Emerald Scaly Spikes	Water Splash
Captain Fluff	Sonic Meow	Thruster Pack	Right Handed	Silver Wire Locks	Water Splash
Trex Titan	Rocket Sprint	Cyber Eyepatch	Right Handed	Neon Pink Mane	Water Splash
Captain Astro	Warp Tackle	Crystal Horn	Left Handed	Emerald Scaly Spikes	Magnetic Pulse
Cyber Claw	Laser Kick	Crystal Horn	Left Handed	Silver Wire Locks	Magnetic Pulse
Princess Whiskers	Laser Kick	Hologram Cloak	Right Handed	Emerald Scaly Spikes	Magnetic Pulse
Patchwork Pete	Rocket Sprint	Cyber Eyepatch	Right Handed	Emerald Scaly Spikes	Catnip Mist
Siren Splash	Laser Kick	Cyber Eyepatch	Left Handed	Silver Wire Locks	Water Splash
Rex Volt	Warp Tackle	Hologram Cloak	Left Handed	Silver Wire Locks	Water Splash
Ramblin Ray	Plasma Shield	Cyber Eyepatch	Right Handed	Silver Wire Locks	Catnip Mist
Nova Spark	Rocket Sprint	Hologram Cloak	Left Handed	Neon Pink Mane	Magnetic Pulse
Vortex Velvet	Plasma Shield	Crystal Horn	Left Handed	Emerald Scaly Spikes	Magnetic Pulse
T-Max Prime	Warp Tackle	Crystal Horn	Left Handed	Silver Wire Locks	Water Splash

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CLUE 1 Place value

To read the security terminal, you analyze the place value of the code digits.

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



What is the value of the 7 in 52,748? ☐ → T

What is the value of the 6 in 56,989? ☐ → Y

What is the value of the 8 in 25,784? ☐ → W

What is the value of the 5 in 25,214? ☐ → O

What is the value of the 7 in 94,874? ☐ → B

What is the value of the 3 in 173,786? ☐ → A

What is the value of the 5 in 274,539? ☐ → C

What is the value of the 6 in 775,861? ☐ → J

What is the value of the 9 in 609,238? ☐ → H

What is the value of the 9 in 241,696? ☐ → E

What is the value of the 3 in 252,031? ☐ → P

What is the value of the 5 in 36,953? ☐ → R

What is the value of the 2 in 371,244? ☐ → I

What is the value of the 9 in 88,902? ☐ → S

What is the value of the 8 in 58,037? ☐ → K

What is the value of the 4 in 723,946? ☐ → N

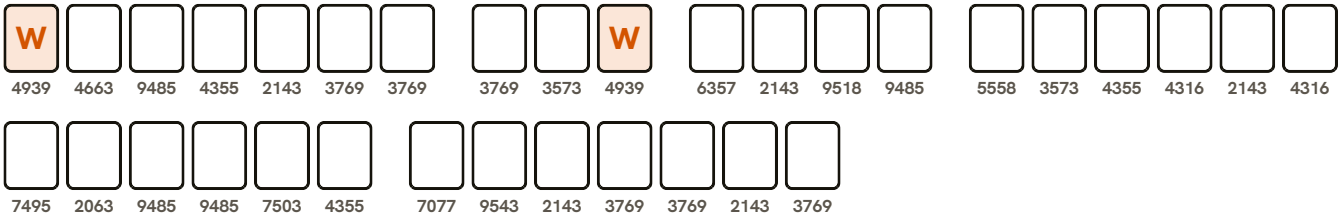
What is the value of the 1 in 27,210? ☐ → D

Scratch space:

CLUE 2 Addition

The station log recorded extra power surges that must be combined to total the damage.

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



2535 + 2404 = ☐ → W

685 + 1378 = ☐ → U

2175 + 1398 = ☐ → A

3007 + 6536 = ☐ → R

1043 + 1100 = ☐ → E

2247 + 3311 = ☐ → H

2947 + 1716 = ☐ → I

2201 + 4156 = ☐ → L

2158 + 2197 = ☐ → N

4473 + 3022 = ☐ → B

2388 + 1381 = ☐ → S

2187 + 2129 = ☐ → D

4694 + 2383 = ☐ → P

3426 + 4077 = ☐ → O

4520 + 4998 = ☐ → F

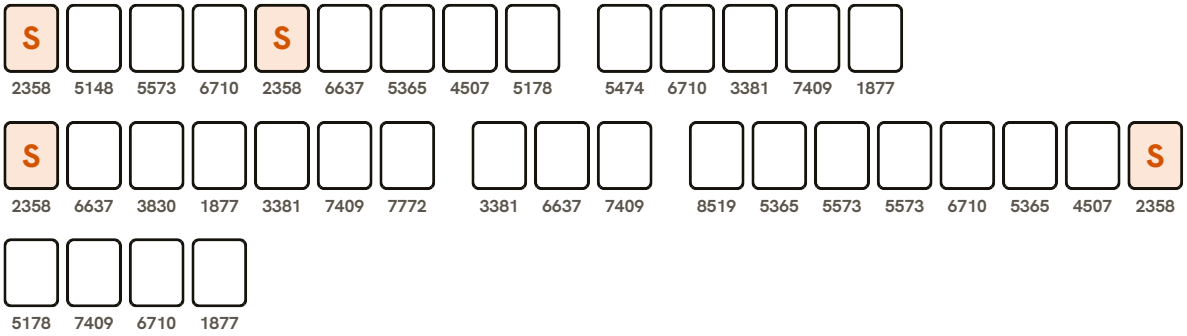
3926 + 5559 = ☐ → T

Scratch space:

CLUE 3 Subtraction

> Comparing energy reserves before and after the raid reveals the exact difference.

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



4648 - 2290 = ☐ → S

6891 - 1526 = ☐ → I

4669 - 162 = ☐ → N

6174 - 1026 = ☐ → P

5667 - 2286 = ☐ → T

7357 - 2179 = ☐ → G

11727 - 3208 = ☐ → V

7528 - 2054 = ☐ → W

8692 - 1982 = ☐ → A

7595 - 3765 = ☐ → O

7395 - 758 = ☐ → H

9417 - 3844 = ☐ → L

8898 - 1126 = ☐ → D

10249 - 2840 = ☐ → E

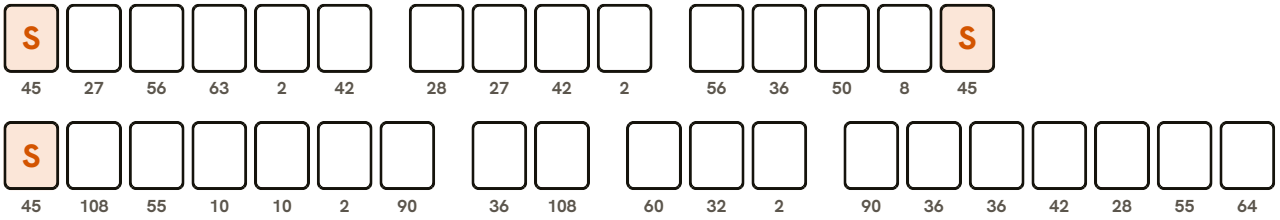
1921 - 44 = ☐ → R

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Analyzing equal rows of storage crates gives the total weight of missing gear.

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



5 × 9 = ☐ → S	4 × 7 = ☐ → W	4 × 9 = ☐ → O	7 × 6 = ☐ → R
10 × 9 = ☐ → D	8 × 8 = ☐ → Y	10 × 5 = ☐ → C	
9 × 12 = ☐ → N	4 × 2 = ☐ → K	2 × 5 = ☐ → G	4 × 8 = ☐ → H
2 × 1 = ☐ → E	9 × 3 = ☐ → I	11 × 5 = ☐ → A	
6 × 10 = ☐ → T	7 × 8 = ☐ → L	9 × 7 = ☐ → V	

Scratch space:

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

Dividing the intercepted data pods equally among team monitors unlocks the final clue.

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:

121 ÷ 11 = ☐ | 9 ÷ 9 = ☐ | 8 ÷ 4 = ☐ | 6 ÷ 1 = ☐ | 108 ÷ 12 = ☐

72 ÷ 9 = ☐ | 28 ÷ 7 = ☐ | 144 ÷ 12 = ☐ | 35 ÷ 5 = ☐ | 20 ÷ 2 = ☐

35 ÷ 7 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain executed a warp tackle on the guards, then charged the core with a crystal horn.
2. The villain executed a warp tackle on the guards, then fled using a hologram cloak.
3. The villain executed a warp tackle on the guards, then zoomed away on a thruster pack.
4. The villain executed a warp tackle on the guards, then swiped data while adjusting a cyber eyepatch.
5. The villain used a rocket sprint across the pitch, then zoomed away on a thruster pack.
6. The villain used a rocket sprint across the pitch, then swiped data while adjusting a cyber eyepatch.
7. The villain used a laser kick to breach the gate, then fled using a hologram cloak.
8. The villain activated a plasma shield to block security, then fled using a hologram cloak.
9. The villain used a rocket sprint across the pitch, then stole energy with gravity boots.
10. The villain used a laser kick to breach the gate, then charged the core with a crystal horn.
11. The villain unleashed a sonic meow to scramble alarms, then charged the core with a crystal horn.
12. The villain activated a plasma shield to block security, then stole energy with gravity boots.

TEACHER / PARENT

Answer Key

The Great Space-Pirate Cyber Hijack

Culprit: Commander Tail

Warp Tackle · Thruster Pack · Left Handed · Silver Wire Locks · Water Splash

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE HIJACKER DOES NOT WEAR A CYBER EYEPATCH"

What is the value of the 7 in 52,748? = 700 (T) · What is the value of the 6 in 56,989? = 6000 (Y) · What is the value of the 8 in 25,784? = 80 (W) · What is the value of the 5 in 25,214? = 5000 (O) · What is the value of the 7 in 94,874? = 70 (B) · What is the value of the 3 in 173,786? = 3000 (A) · What is the value of the 5 in 274,539? = 500 (C) · What is the value of the 6 in 775,861? = 60 (J) · What is the value of the 9 in 609,238? = 9000 (H) · What is the value of the 9 in 241,696? = 90 (E) · What is the value of the 3 in 252,031? = 30 (P) · What is the value of the 5 in 36,953? = 50 (R) · What is the value of the 2 in 371,244? = 200 (I) · What is the value of the 9 in 88,902? = 900 (S) · What is the value of the 8 in 58,037? = 8000 (K) · What is the value of the 4 in 723,946? = 40 (N) · What is the value of the 1 in 27,210? = 10 (D)

Clue 2 (Addition): "WITNESS SAW LEFT HANDED BUTTON PRESSES"

2535 + 2404 = 4939 (W) · 685 + 1378 = 2063 (U) · 2175 + 1398 = 3573 (A) · 3007 + 6536 = 9543 (R) · 1043 + 1100 = 2143 (E) · 2247 + 3311 = 5558 (H) · 2947 + 1716 = 4663 (I) · 2201 + 4156 = 6357 (L) · 2158 + 2197 = 4355 (N) · 4473 + 3022 = 7495 (B) · 2388 + 1381 = 3769 (S) · 2187 + 2129 = 4316 (D) · 4694 + 2383 = 7077 (P) · 3426 + 4077 = 7503 (O) · 4520 + 4998 = 9518 (F) · 3926 + 5559 = 9485 (T)

Clue 3 (Subtraction): "SPLASHING WATER SHORTED THE VILLAINS GEAR"

4648 - 2290 = 2358 (S) · 6891 - 1526 = 5365 (I) · 4669 - 162 = 4507 (N) · 6174 - 1026 = 5148 (P) · 5667 - 2286 = 3381 (T) · 7357 - 2179 = 5178 (G) · 11727 - 3208 = 8519 (V) · 7528 - 2054 = 5474 (W) · 8692 - 1982 = 6710 (A) · 7595 - 3765 = 3830 (O) · 7395 - 758 = 6637 (H) · 9417 - 3844 = 5573 (L) · 8898 - 1126 = 7772 (D) · 10249 - 2840 = 7409 (E) · 1921 - 44 = 1877 (R)

Clue 4 (Multiplication facts (1-12)): "SILVER WIRE LOCKS SNAGGED ON THE DOORWAY"

5 × 9 = 45 (S) · 4 × 7 = 28 (W) · 4 × 9 = 36 (O) · 7 × 6 = 42 (R) · 10 × 9 = 90 (D) · 8 × 8 = 64 (Y) · 10 × 5 = 50 (C) · 9 × 12 = 108 (N) · 4 × 2 = 8 (K) · 2 × 5 = 10 (G) · 4 × 8 = 32 (H) · 2 × 1 = 2 (E) · 9 × 3 = 27 (I) · 11 × 5 = 55 (A) · 6 × 10 = 60 (T) · 7 × 8 = 56 (L) · 9 × 7 = 63 (V)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Commander Tail

121 ÷ 11 = 11 · 9 ÷ 9 = 1 · 8 ÷ 4 = 2 · 6 ÷ 1 = 6 · 108 ÷ 12 = 9 · 72 ÷ 9 = 8 · 28 ÷ 7 = 4 · 144 ÷ 12 = 12 · 35 ÷ 5 = 7 · 20 ÷ 2 = 10 · 35 ÷ 7 = 5