The Sabotage on Cruiser Resolution

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

Detective: _____ **Date:** _____

A sneaky intruder jammed the primary hyperdrive hyper-coils right before a crucial patrol mission. Commander Rex needs your help to examine clues and find out who sabotaged the ship.

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

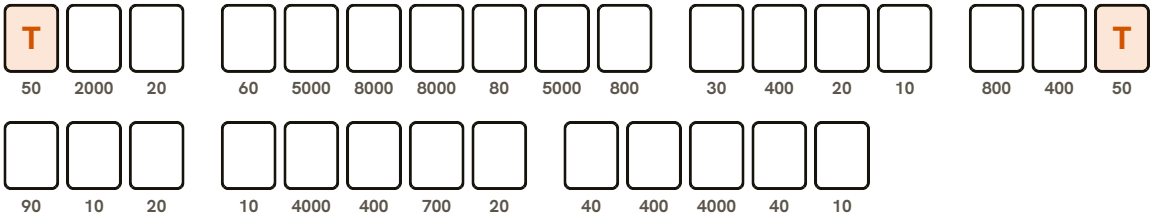
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIAL GEAR	TACTIC	DOMINANT HAND	HELMET STRIPE	GADGET VULNERABILITY
Tech	Thermal Detonator	Hacking Terminal	Left Handed	Gold Stripe	Sonic Whistle
Gregor	Jetpack Booster	Laser Cutter	Left Handed	Blue Stripe	Ion Cannon
Wrecker	Macrobinocular	Laser Cutter	Right Handed	Blue Stripe	Sonic Whistle
Crosshair	Wrist Shield	Smoke Bomb	Right Handed	Red Stripe	Sonic Whistle
Aurra Sing	Jetpack Booster	Laser Cutter	Right Handed	Red Stripe	Sonic Whistle
Captain Rex	Wrist Shield	EMP Grenade	Left Handed	Red Stripe	Ion Cannon
Bacara	Wrist Shield	Smoke Bomb	Left Handed	Gold Stripe	Magnet Trap
Hunter	Macrobinocular	Stealth Cloaking	Right Handed	Gold Stripe	Sonic Whistle
Gree	Grapple Hook	Hacking Terminal	Right Handed	Red Stripe	Magnet Trap
Waxer	Jetpack Booster	Hacking Terminal	Left Handed	Red Stripe	Sonic Whistle
Hondo Ohnaka	Macrobinocular	Laser Cutter	Right Handed	Red Stripe	Sonic Whistle
Jesse	Grapple Hook	Stealth Cloaking	Right Handed	Red Stripe	Sonic Whistle
Bly	Grapple Hook	Stealth Cloaking	Right Handed	Red Stripe	Magnet Trap
Fives	Macrobinocular	Smoke Bomb	Right Handed	Red Stripe	Magnet Trap
Wolffe	Thermal Detonator	Stealth Cloaking	Right Handed	Red Stripe	Sonic Whistle
Echo	Thermal Detonator	Laser Cutter	Left Handed	Gold Stripe	Sonic Whistle
Ahsoka Tano	Grapple Hook	Smoke Bomb	Left Handed	Red Stripe	Sonic Whistle
Hardcase	Thermal Detonator	EMP Grenade	Right Handed	Red Stripe	Magnet Trap
Kix	Grapple Hook	Hacking Terminal	Left Handed	Blue Stripe	Ion Cannon
Boil	Grapple Hook	Laser Cutter	Left Handed	Blue Stripe	Magnet Trap
Tup	Jetpack Booster	Hacking Terminal	Right Handed	Blue Stripe	Ion Cannon

CLUE 1 Place value

The bridge computer needs you to parse digits to decode the first security scanner readout.

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



What is the value of the 5 in 657? ☐ → T

What is the value of the 6 in 1,969? ☐ → V

What is the value of the 4 in 5,146? ☐ → B

What is the value of the 2 in 924? ☐ → E

What is the value of the 4 in 6,450? ☐ → O

What is the value of the 8 in 867? ☐ → N

What is the value of the 7 in 709? ☐ → K

What is the value of the 2 in 2,734? ☐ → H

What is the value of the 4 in 54,118? ☐ → M

What is the value of the 9 in 394? ☐ → U

What is the value of the 8 in 8,436? ☐ → L

What is the value of the 5 in 35,309? ☐ → I

What is the value of the 8 in 385? ☐ → A

What is the value of the 1 in 7,916? ☐ → S

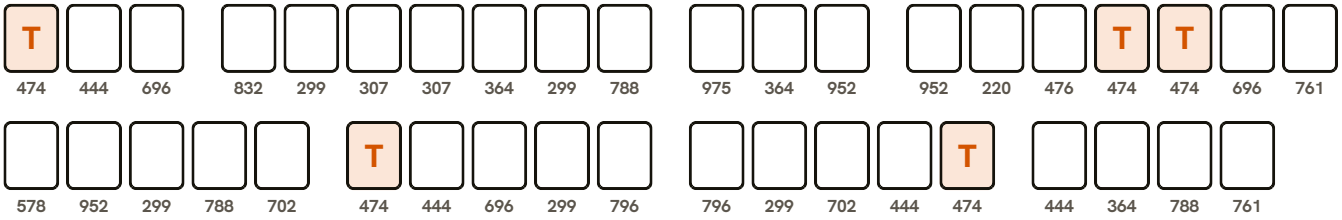
What is the value of the 3 in 6,131? ☐ → D

Scratch space:

CLUE 2 Addition

You tally up all energy cell crates stored in the main hangar deck.

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



282 + 192 = ☐ → T

399 + 553 = ☐ → S

223 + 221 = ☐ → H

129 + 91 = ☐ → P

323 + 153 = ☐ → O

196 + 168 = ☐ → A

168 + 131 = ☐ → I

104 + 203 = ☐ → L

270 + 518 = ☐ → N

574 + 258 = ☐ → V

392 + 404 = ☐ → R

382 + 320 = ☐ → G

495 + 480 = ☐ → W

404 + 292 = ☐ → E

261 + 317 = ☐ → U

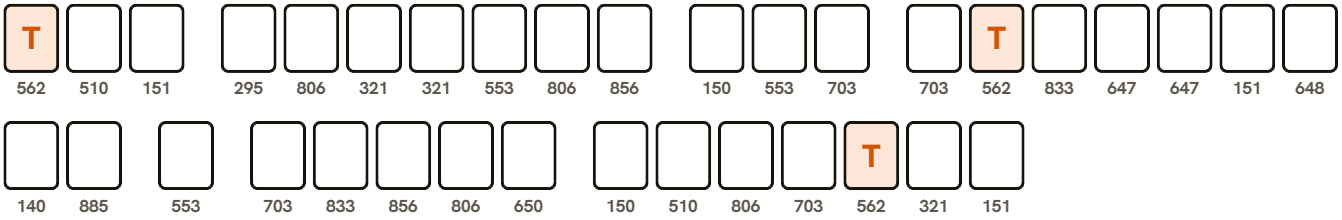
244 + 517 = ☐ → D

Scratch space:

CLUE 3 Subtraction

You calculate how many plasma chargers remain after the droid attack.

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



747 - 185 = ☐ → T

936 - 288 = ☐ → D

763 - 113 = ☐ → C

249 - 99 = ☐ → W

936 - 130 = ☐ → I

1181 - 296 = ☐ → Y

969 - 266 = ☐ → S

190 - 39 = ☐ → E

604 - 309 = ☐ → V

905 - 395 = ☐ → H

394 - 254 = ☐ → B

541 - 220 = ☐ → L

879 - 46 = ☐ → O

901 - 254 = ☐ → P

636 - 83 = ☐ → A

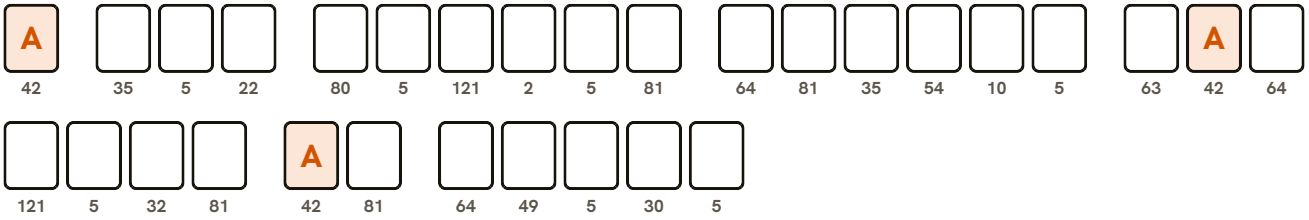
1181 - 325 = ☐ → N

Scratch space:

CLUE 4 Multiplication facts (1-12)

> You count rows of astromech droids lined up in four equal bays.

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



6 × 7 = ☐ → A	2 × 5 = ☐ → P	7 × 7 = ☐ → C	5 × 7 = ☐ → R
9 × 9 = ☐ → T	8 × 4 = ☐ → F	2 × 11 = ☐ → D	1 × 5 = ☐ → E
8 × 8 = ☐ → S	8 × 10 = ☐ → H	5 × 6 = ☐ → N	9 × 6 = ☐ → I
1 × 2 = ☐ → M	11 × 11 = ☐ → L	7 × 9 = ☐ → W	

Scratch space:

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

> You share supply canisters equally among the clone squad troopers.

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:

60 ÷ 5 = ☐ | 60 ÷ 12 = ☐ | 35 ÷ 5 = ☐ | 120 ÷ 12 = ☐ | 18 ÷ 2 = ☐

66 ÷ 6 = ☐ | 12 ÷ 6 = ☐ | 3 ÷ 1 = ☐ | 24 ÷ 4 = ☐ | 80 ÷ 10 = ☐

8 ÷ 2 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain tossed a thermal detonator, then vanished using stealth cloaking.
2. The villain boosted with a jetpack, then threw down a smoke bomb.
3. The villain tossed a thermal detonator, then threw down a smoke bomb.
4. The villain tossed a thermal detonator, then disabled circuits with an emp grenade.
5. The villain boosted with a jetpack, then sliced through doors with a laser cutter.
6. The villain boosted with a jetpack, then vanished using stealth cloaking.
7. The villain fired a grapple hook, then vanished using stealth cloaking.
8. The villain fired a grapple hook, then disabled circuits with an emp grenade.
9. The villain fired a grapple hook, then accessed the computer terminal.
10. The villain blocked shots with a wrist shield, then disabled circuits with an emp grenade.
11. The villain fired a grapple hook, then sliced through doors with a laser cutter.
12. The villain scouted with macrobinoculars, then sliced through doors with a laser cutter.

TEACHER / PARENT

Answer Key

The Sabotage on Cruiser Resolution

Culprit: Wolffe

Thermal Detonator · Stealth Cloaking · Right Handed · Red Stripe · Sonic Whistle

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

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

What is the value of the 5 in 657? = 50 (T) · What is the value of the 6 in 1,969? = 60 (V) · What is the value of the 4 in 5,146? = 40 (B) · What is the value of the 2 in 924? = 20 (E) · What is the value of the 4 in 6,450? = 400 (O) · What is the value of the 8 in 867? = 800 (N) · What is the value of the 7 in 709? = 700 (K) · What is the value of the 2 in 2,734? = 2000 (H) · What is the value of the 4 in 54,118? = 4000 (M) · What is the value of the 9 in 394? = 90 (U) · What is the value of the 8 in 8,436? = 8000 (L) · What is the value of the 5 in 35,309? = 5000 (I) · What is the value of the 8 in 385? = 80 (A) · What is the value of the 1 in 7,916? = 10 (S) · What is the value of the 3 in 6,131? = 30 (D)

Clue 2 (Addition): "THE VILLAIN WAS SPOTTED USING THEIR RIGHT HAND"

282 + 192 = 474 (T) · 399 + 553 = 952 (S) · 223 + 221 = 444 (H) · 129 + 91 = 220 (P) · 323 + 153 = 476 (O) · 196 + 168 = 364 (A) · 168 + 131 = 299 (I) · 104 + 203 = 307 (L) · 270 + 518 = 788 (N) · 574 + 258 = 832 (V) · 392 + 404 = 796 (R) · 382 + 320 = 702 (G) · 495 + 480 = 975 (W) · 404 + 292 = 696 (E) · 261 + 317 = 578 (U) · 244 + 517 = 761 (D)

Clue 3 (Subtraction): "THE VILLAIN WAS STOPPED BY A SONIC WHISTLE"

747 - 185 = 562 (T) · 936 - 288 = 648 (D) · 763 - 113 = 650 (C) · 249 - 99 = 150 (W) · 936 - 130 = 806 (I) · 1181 - 296 = 885 (Y) · 969 - 266 = 703 (S) · 190 - 39 = 151 (E) · 604 - 309 = 295 (V) · 905 - 395 = 510 (H) · 394 - 254 = 140 (B) · 541 - 220 = 321 (L) · 879 - 46 = 833 (O) · 901 - 254 = 647 (P) · 636 - 83 = 553 (A) · 1181 - 325 = 856 (N)

Clue 4 (Multiplication facts (1-12)): "A RED HELMET STRIPE WAS LEFT AT SCENE"

6 × 7 = 42 (A) · 2 × 5 = 10 (P) · 7 × 7 = 49 (C) · 5 × 7 = 35 (R) · 9 × 9 = 81 (T) · 8 × 4 = 32 (F) · 2 × 11 = 22 (D) · 1 × 5 = 5 (E) · 8 × 8 = 64 (S) · 8 × 10 = 80 (H) · 5 × 6 = 30 (N) · 9 × 6 = 54 (I) · 1 × 2 = 2 (M) · 11 × 11 = 121 (L) · 7 × 9 = 63 (W)

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

60 ÷ 5 = 12 · 60 ÷ 12 = 5 · 35 ÷ 5 = 7 · 120 ÷ 12 = 10 · 18 ÷ 2 = 9 · 66 ÷ 6 = 11 · 12 ÷ 6 = 2 · 3 ÷ 1 = 3 · 24 ÷ 4 = 6 · 80 ÷ 10 = 8 · 8 ÷ 2 = 4