The Outpost Delta Sabotage

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

Detective: _____ **Date:** _____

A secret droid infiltrator sabotaged the main generator during the Clone Wars! Captain Rex and Commander Cody need your detective skills to analyze clues and unmask the traitor before the Separatist fleet arrives.

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 rogue infiltrator is _____

Possible suspects

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

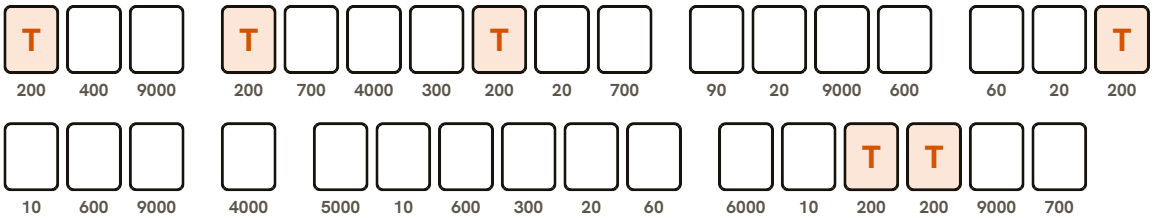
NAME	SPECIAL GEAR	TACTICAL TOOL	GRIP STYLE	HELMET STRIPE	DISRUPTION DEVICE
Cadet Echo	Stealth Cloak	Fusion Cutter	Right-Handed Grip	Red Markings	Sonic Pulse
Sergeant Hunter	Grappling Hook	Scanner Array	Left-Handed Grip	Red Markings	Ion Blaster
Officer Tarkin	Shield Emitter	Holo-Comlink	Right-Handed Grip	Blue Crest	Sonic Pulse
Clone Trooper Tup	Grappling Hook	Macrobinoculars	Right-Handed Grip	Yellow Stripes	EMP Grenade
Trooper Dogma	Jetpack Module	Fusion Cutter	Right-Handed Grip	Blue Crest	Ion Blaster
Trooper Heavy	Thermal Detonator	Fusion Cutter	Right-Handed Grip	Yellow Stripes	EMP Grenade
Clone Trooper Boil	Grappling Hook	Datapad Override	Right-Handed Grip	Blue Crest	Sonic Pulse
Commander Bly	Shield Emitter	Scanner Array	Right-Handed Grip	Blue Crest	Sonic Pulse
Commander Jet	Grappling Hook	Holo-Comlink	Right-Handed Grip	Red Markings	Ion Blaster
Commander Cody	Thermal Detonator	Macrobinoculars	Right-Handed Grip	Yellow Stripes	Ion Blaster
Admiral Yularen	Thermal Detonator	Fusion Cutter	Left-Handed Grip	Red Markings	EMP Grenade
Clone Trooper Echo	Shield Emitter	Scanner Array	Right-Handed Grip	Red Markings	Sonic Pulse
Clone Trooper Kix	Jetpack Module	Scanner Array	Left-Handed Grip	Red Markings	Sonic Pulse
Trooper Crosshair	Grappling Hook	Scanner Array	Right-Handed Grip	Red Markings	EMP Grenade
Clone Captain Gregor	Stealth Cloak	Datapad Override	Right-Handed Grip	Red Markings	Sonic Pulse
Clone Trooper Hardcase	Stealth Cloak	Holo-Comlink	Right-Handed Grip	Blue Crest	Sonic Pulse
Clone Trooper Jesse	Shield Emitter	Datapad Override	Left-Handed Grip	Red Markings	Ion Blaster
Clone Trooper Waxer	Thermal Detonator	Datapad Override	Right-Handed Grip	Red Markings	Ion Blaster
Commander Fox	Jetpack Module	Macrobinoculars	Right-Handed Grip	Red Markings	Sonic Pulse
Clone Commander Wolffe	Grappling Hook	Datapad Override	Left-Handed Grip	Yellow Stripes	Sonic Pulse
Captain Rex	Shield Emitter	Macrobinoculars	Right-Handed Grip	Red Markings	Sonic Pulse

make your own at mathcrackers.com

CLUE 1 Place value

> Commander Cody decrypts a secret code on the terminal panel. Look at the digit in the tens place on the security readout to crack the first code.

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



What is the value of the 2 in 231? ☐ → **T**

What is the value of the 5 in 5,432? ☐ → **F**

What is the value of the 6 in 46,250? ☐ → **C**

What is the value of the 6 in 264? ☐ → **N**

What is the value of the 1 in 2,917? ☐ → **U**

What is the value of the 6 in 605? ☐ → **S**

What is the value of the 4 in 4,308? ☐ → **A**

What is the value of the 9 in 193? ☐ → **D**

What is the value of the 2 in 620? ☐ → **O**

What is the value of the 3 in 2,320? ☐ → **I**

What is the value of the 7 in 9,795? ☐ → **R**

What is the value of the 4 in 496? ☐ → **H**

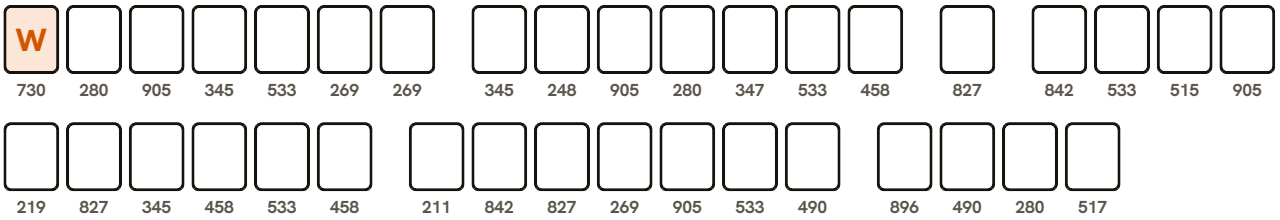
What is the value of the 9 in 39,081? ☐ → **E**

Scratch space:

CLUE 2 Addition

Captain Rex counts the remaining energy cells in the supply depot. Add the total power canisters to reveal the next clue.

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



294 + 436 = ☐ → W

187 + 82 = ☐ → S

265 + 268 = ☐ → E

162 + 86 = ☐ → O

234 + 111 = ☐ → N

84 + 135 = ☐ → H

604 + 292 = ☐ → G

526 + 316 = ☐ → L

192 + 88 = ☐ → I

296 + 221 = ☐ → P

200 + 290 = ☐ → R

203 + 312 = ☐ → F

282 + 545 = ☐ → A

179 + 279 = ☐ → D

148 + 199 = ☐ → C

568 + 337 = ☐ → T

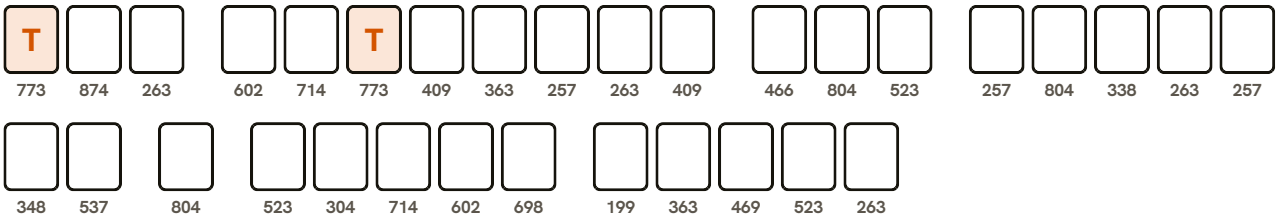
142 + 69 = ☐ → B

Scratch space:

CLUE 3 Subtraction

> Trooper Fives compares the blaster charges fired by the intruder against the base vault inventory. Subtract the missing charges to keep trailing the suspect.

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



870 - 97 = ☐ → T

892 - 369 = ☐ → S

795 - 193 = ☐ → I

729 - 15 = ☐ → N

769 - 71 = ☐ → C

577 - 273 = ☐ → O

557 - 219 = ☐ → Z

1055 - 181 = ☐ → H

841 - 372 = ☐ → L

305 - 48 = ☐ → D

884 - 347 = ☐ → Y

758 - 292 = ☐ → W

366 - 18 = ☐ → B

581 - 382 = ☐ → P

365 - 2 = ☐ → U

825 - 21 = ☐ → A

601 - 338 = ☐ → E

647 - 238 = ☐ → R

Scratch space:

CLUE 4 Word problems

> Echo checks the squad manifest for incoming transport shuttles. Solve these supply word problems to narrow down the list of suspects.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of

R					R			N	G	S
33	16	54	55	46	33	38	43			

hair turned up at the scene.

There were 69 ration pack. 36 were used up. How many ration pack are left?

Answer: ☐ → **R**

Clone Trooper found 27 kyber crystal yesterday and 28 more today. How many kyber crystal in all?

Answer: ☐ → **M**

Clone Trooper found 22 blaster bolt yesterday and 21 more today. How many blaster bolt in all?

Answer: ☐ → **I**

Clone Trooper lined up 2 rows of 8 power cell. How many power cell in all?

Answer: ☐ → **E**

Clone Trooper lined up 9 rows of 6 power cell. How many power cell in all?

Answer: ☐ → **D**

There were 74 blaster bolt. 28 were used up. How many blaster bolt are left?

Answer: ☐ → **A**

Clone Trooper found 5 blaster bolt yesterday and 33 more today. How many blaster bolt in all?

Answer: ☐ → **K**

Scratch space:

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

> Tech splits the decoded comm frequencies into equal channel blocks. Divide the bandwidth numbers to reveal the final hidden 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:

42 ÷ 6 = ☐	144 ÷ 12 = ☐	70 ÷ 7 = ☐	44 ÷ 11 = ☐	20 ÷ 4 = ☐
9 ÷ 1 = ☐	55 ÷ 5 = ☐	22 ÷ 11 = ☐	80 ÷ 10 = ☐	3 ÷ 1 = ☐
12 ÷ 12 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain activated a stealth cloak, then scanned with macrobinoculars.
2. The villain latched a grappling hook, then swept with a scanner array.
3. The villain latched a grappling hook, then sliced doors with a fusion cutter.
4. The villain activated a stealth cloak, then swept with a scanner array.
5. The villain ignited a jetpack module, then sliced doors with a fusion cutter.
6. The villain raised a shield emitter, then swept with a scanner array.
7. The villain activated a stealth cloak, then hacked the terminal with a datapad.
8. The villain latched a grappling hook, then called in on a holo comlink.
9. The villain activated a stealth cloak, then called in on a holo comlink.
10. The villain ignited a jetpack module, then scanned with macrobinoculars.
11. The villain tossed a thermal detonator, then hacked the terminal with a datapad.
12. The villain raised a shield emitter, then scanned with macrobinoculars.

TEACHER / PARENT

Answer Key

The Outpost Delta Sabotage

Culprit: Clone Trooper Echo

Shield Emitter · Scanner Array · Right-Handed Grip · Red Markings · Sonic Pulse

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE TRAITOR DOES NOT USE A FUSION CUTTER"

What is the value of the 2 in 231? = 200 (T) · What is the value of the 5 in 5,432? = 5000 (F) · What is the value of the 6 in 46,250? = 6000 (C) · What is the value of the 6 in 264? = 60 (N) · What is the value of the 1 in 2,917? = 10 (U) · What is the value of the 6 in 605? = 600 (S) · What is the value of the 4 in 4,308? = 4000 (A) · What is the value of the 9 in 193? = 90 (D) · What is the value of the 2 in 620? = 20 (O) · What is the value of the 3 in 2,320? = 300 (I) · What is the value of the 7 in 9,795? = 700 (R) · What is the value of the 4 in 496? = 400 (H) · What is the value of the 9 in 39,081? = 9000 (E)

Clue 2 (Addition): "WITNESS NOTICED A LEFT HANDED BLASTER GRIP"

294 + 436 = 730 (W) · 187 + 82 = 269 (S) · 265 + 268 = 533 (E) · 162 + 86 = 248 (O) · 234 + 111 = 345 (N) · 84 + 135 = 219 (H) · 604 + 292 = 896 (G) · 526 + 316 = 842 (L) · 192 + 88 = 280 (I) · 296 + 221 = 517 (P) · 200 + 290 = 490 (R) · 203 + 312 = 515 (F) · 282 + 545 = 827 (A) · 179 + 279 = 458 (D) · 148 + 199 = 347 (C) · 568 + 337 = 905 (T) · 142 + 69 = 211 (B)

Clue 3 (Subtraction): "THE INTRUDER WAS DAZED BY A SONIC PULSE"

870 - 97 = 773 (T) · 892 - 369 = 523 (S) · 795 - 193 = 602 (I) · 729 - 15 = 714 (N) · 769 - 71 = 698 (C) · 577 - 273 = 304 (O) · 557 - 219 = 338 (Z) · 1055 - 181 = 874 (H) · 841 - 372 = 469 (L) · 305 - 48 = 257 (D) · 884 - 347 = 537 (Y) · 758 - 292 = 466 (W) · 366 - 18 = 348 (B) · 581 - 382 = 199 (P) · 365 - 2 = 363 (U) · 825 - 21 = 804 (A) · 601 - 338 = 263 (E) · 647 - 238 = 409 (R)

Clue 4 (Word problems): "RED MARKINGS"

There were 69 ration pack. 36 were used up. How many ration pack are left? = 33 (R) · Clone Trooper found 27 kyber crystal yesterday and 28 more today. How many kyber crystal in all? = 55 (M) · Clone Trooper found 22 blaster bolt yesterday and 21 more today. How many blaster bolt in all? = 43 (I) · Clone Trooper lined up 2 rows of 8 power cell. How many power cell in all? = 16 (E) · Clone Trooper lined up 9 rows of 6 power cell. How many power cell in all? = 54 (D) · There were 74 blaster bolt. 28 were used up. How many blaster bolt are left? = 46 (A) · Clone Trooper found 5 blaster bolt yesterday and 33 more today. How many blaster bolt in all? = 38 (K)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Clone Trooper Echo

42 ÷ 6 = 7 · 144 ÷ 12 = 12 · 70 ÷ 7 = 10 · 44 ÷ 11 = 4 · 20 ÷ 4 = 5 · 9 ÷ 1 = 9 · 55 ÷ 5 = 11 · 22 ÷ 11 = 2 · 80 ÷ 10 = 8 · 3 ÷ 1 = 3 · 12 ÷ 12 = 1