The Outpost Corvus Sabotage

Grade 4 math · Addition, Subtraction, Multiplication, Skip counting, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A mystery spy snuck into Command Outpost Corvus and stole the secret star charts. Commander Jax needs your help to decode the clues, identify the suspect, and recover the missing charts before the fleet departs.

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 shadow spy is _____

Possible suspects

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

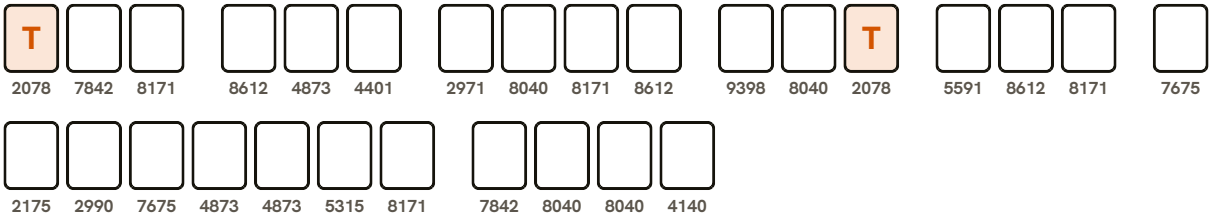
NAME	PRIMARY WEAPON	SPECIAL GEAR	GLOVE MARKER	HELMET STRIPE	WEAKNESS
Commander Cody	Dual Blasters	Jetpack	Left Wrist Band	Blue Stripe	Ion Grenades
Captain Rex	Force Pike	Grapple Hook	Right Wrist Band	Blue Stripe	Sonic Blasts
Hunter	Force Pike	Thermal Scanner	Right Wrist Band	Blue Stripe	Sonic Blasts
Crosshair	Force Pike	Jetpack	Right Wrist Band	Blue Stripe	Sonic Blasts
Tup	Bowcaster	Stealth Cloak	Right Wrist Band	Blue Stripe	Sonic Blasts
Bacara	Force Pike	Shield Emitter	Right Wrist Band	Gold Stripe	Sonic Blasts
Dogma	Electro Staff	Jetpack	Left Wrist Band	Blue Stripe	Flash Bangs
Bly	Force Pike	Shield Emitter	Right Wrist Band	Blue Stripe	Ion Grenades
Wolffe	Dual Blasters	Thermal Scanner	Right Wrist Band	Blue Stripe	Sonic Blasts
Arc Trooper Fives	Force Pike	Thermal Scanner	Left Wrist Band	Blue Stripe	Sonic Blasts
Echo	Dual Blasters	Jetpack	Left Wrist Band	Blue Stripe	Sonic Blasts
Kix	Dual Blasters	Thermal Scanner	Right Wrist Band	Red Stripe	Ion Grenades
Waxer	Dual Blasters	Shield Emitter	Left Wrist Band	Gold Stripe	Sonic Blasts
Gree	Force Pike	Shield Emitter	Right Wrist Band	Gold Stripe	Ion Grenades
Boost	Plasma Torch	Jetpack	Right Wrist Band	Gold Stripe	Ion Grenades
Jesse	Plasma Torch	Thermal Scanner	Right Wrist Band	Red Stripe	Sonic Blasts
Wrecker	Force Pike	Thermal Scanner	Right Wrist Band	Gold Stripe	Flash Bangs
Tech	Force Pike	Thermal Scanner	Left Wrist Band	Blue Stripe	Ion Grenades
Boil	Force Pike	Thermal Scanner	Right Wrist Band	Blue Stripe	Flash Bangs
Sinker	Plasma Torch	Stealth Cloak	Right Wrist Band	Red Stripe	Sonic Blasts
Neyo	Force Pike	Thermal Scanner	Left Wrist Band	Red Stripe	Sonic Blasts

make your own at mathcrackers.com

CLUE 1 Addition

Trooper Rex adds up the supply crates found in the bay to clear the first clue.

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



912 + 1166 = ☐ → T

1466 + 2935 = ☐ → Y

1009 + 1981 = ☐ → R

2289 + 1851 = ☐ → K

4297 + 3545 = ☐ → H

3013 + 1860 = ☐ → P

1668 + 1303 = ☐ → D

1989 + 3326 = ☐ → L

3913 + 4699 = ☐ → S

1480 + 695 = ☐ → G

3127 + 6271 = ☐ → N

4089 + 3586 = ☐ → A

3410 + 2181 = ☐ → U

3385 + 4655 = ☐ → O

3959 + 4212 = ☐ → E

Scratch space:

CLUE 2 Subtraction

Tech subtracts damaged energy packs from the total stack to read the security log.

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



5704 - 2404 = ☐ → W

8918 - 1470 = ☐ → I

3801 - 2064 = ☐ → G

8847 - 2401 = ☐ → D

6499 - 3881 = ☐ → H

10042 - 4528 = ☐ → T

4246 - 3053 = ☐ → E

9935 - 2471 = ☐ → A

4259 - 735 = ☐ → R

5139 - 1167 = ☐ → S

9375 - 4442 = ☐ → B

7059 - 98 = ☐ → N

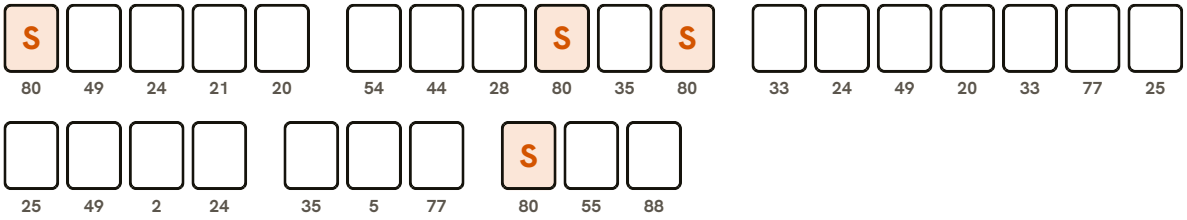
9966 - 1068 = ☐ → O

Scratch space:

CLUE 3 Multiplication facts (1-12)

> Commander Cody calculates the total droids in three neat rows to unlock the terminal.

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



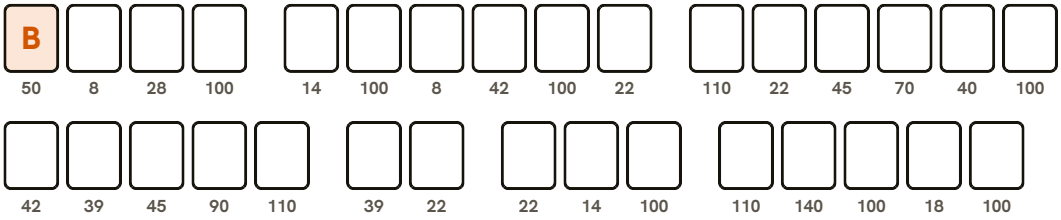
8 × 10 = ☐ → S	5 × 7 = ☐ → T	7 × 4 = ☐ → A			
11 × 8 = ☐ → Y	7 × 7 = ☐ → O	9 × 6 = ☐ → B			
7 × 11 = ☐ → E	11 × 5 = ☐ → P	2 × 1 = ☐ → W			
1 × 5 = ☐ → H	8 × 3 = ☐ → N	4 × 5 = ☐ → C	5 × 5 = ☐ → D		
11 × 3 = ☐ → K	3 × 7 = ☐ → I	11 × 4 = ☐ → L			

Scratch space:

CLUE 4 Skip counting

Hunter skip counts the patrol footprints along the corridor to spot a pattern.

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



Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 ☐ → **B**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → **E**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → **U**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 ☐ → **N**

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 ☐ → **M**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 ☐ → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 ☐ → **P**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 ☐ → **I**

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 ☐ → **K**

Scratch space:

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

> Echo divides the signal data equally among five datapads to reveal the final answer.

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:

14 ÷ 7 = ☐	11 ÷ 11 = ☐	10 ÷ 1 = ☐	81 ÷ 9 = ☐	132 ÷ 12 = ☐
48 ÷ 6 = ☐	48 ÷ 12 = ☐	55 ÷ 11 = ☐	3 ÷ 1 = ☐	14 ÷ 2 = ☐
96 ÷ 8 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain sliced the defense grid, then tracked guard routes with a thermal scanner.
2. The villain blasted open the blast door, then tracked guard routes with a thermal scanner.
3. The villain overloaded the power generator, then blocked laser fire with a shield emitter.
4. The villain sliced the defense grid, then blocked laser fire with a shield emitter.
5. The villain overloaded the power generator, then fled using a jetpack.
6. The villain sliced the defense grid, then fled using a jetpack.
7. The villain overloaded the power generator, then tracked guard routes with a thermal scanner.
8. The villain blasted open the blast door, then scaled the wall with a grapple hook.
9. The villain paralyzed the guard droids, then fled using a jetpack.
10. The villain overloaded the power generator, then vanished with a stealth cloak.
11. The villain paralyzed the guard droids, then blocked laser fire with a shield emitter.
12. The villain blasted open the blast door, then fled using a jetpack.

TEACHER / PARENT

Answer Key

The Outpost Corvus Sabotage

Culprit: Crosshair

Force Pike · Jetpack · Right Wrist Band · Blue Stripe · Sonic Blasts

Trail: Start 21 → Clue 1 20 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SPY DOES NOT USE A GRAPPLE HOOK"

912 + 1166 = 2078 (T) · 1466 + 2935 = 4401 (Y) · 1009 + 1981 = 2990 (R) · 2289 + 1851 = 4140 (K) · 4297 + 3545 = 7842 (H) · 3013 + 1860 = 4873 (P) · 1668 + 1303 = 2971 (D) · 1989 + 3326 = 5315 (L) · 3913 + 4699 = 8612 (S) · 1480 + 695 = 2175 (G) · 3127 + 6271 = 9398 (N) · 4089 + 3586 = 7675 (A) · 3410 + 2181 = 5591 (U) · 3385 + 4655 = 8040 (O) · 3959 + 4212 = 8171 (E)

Clue 2 (Subtraction): "WITNESS SAW A BAND ON THE RIGHT WRIST"

5704 - 2404 = 3300 (W) · 8918 - 1470 = 7448 (I) · 3801 - 2064 = 1737 (G) · 8847 - 2401 = 6446 (D) · 6499 - 3881 = 2618 (H) · 10042 - 4528 = 5514 (T) · 4246 - 3053 = 1193 (E) · 9935 - 2471 = 7464 (A) · 4259 - 735 = 3524 (R) · 5139 - 1167 = 3972 (S) · 9375 - 4442 = 4933 (B) · 7059 - 98 = 6961 (N) · 9966 - 1068 = 8898 (O)

Clue 3 (Multiplication facts (1-12)): "SONIC BLASTS KNOCKED DOWN THE SPY"

8 × 10 = 80 (S) · 5 × 7 = 35 (T) · 7 × 4 = 28 (A) · 11 × 8 = 88 (Y) · 7 × 7 = 49 (O) · 9 × 6 = 54 (B) · 7 × 11 = 77 (E) · 11 × 5 = 55 (P) · 2 × 1 = 2 (W) · 1 × 5 = 5 (H) · 8 × 3 = 24 (N) · 4 × 5 = 20 (C) · 5 × 5 = 25 (D) · 11 × 3 = 33 (K) · 3 × 7 = 21 (I) · 11 × 4 = 44 (L)

Clue 4 (Skip counting): "BLUE HELMET STRIPE MARKS AT THE SCENE"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 = 50 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 = 14 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 = 18 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (M) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 = 39 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 = 40 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 = 70 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (K)

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

14 ÷ 7 = 2 · 11 ÷ 11 = 1 · 10 ÷ 1 = 10 · 81 ÷ 9 = 9 · 132 ÷ 12 = 11 · 48 ÷ 6 = 8 · 48 ÷ 12 = 4 · 55 ÷ 11 = 5 · 3 ÷ 1 = 3 · 14 ÷ 2 = 7 · 96 ÷ 8 = 12