The Kyber Vault Heist

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

Detective: _____ **Date:** _____

A shadowy intruder broke into the ancient Jedi vault and stole the legendary Star Map. High Council detectives must analyze galactic evidence across five security sectors to identify the culprit before they jump to hyperspace.

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 shadow warrior is _____

Possible suspects

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

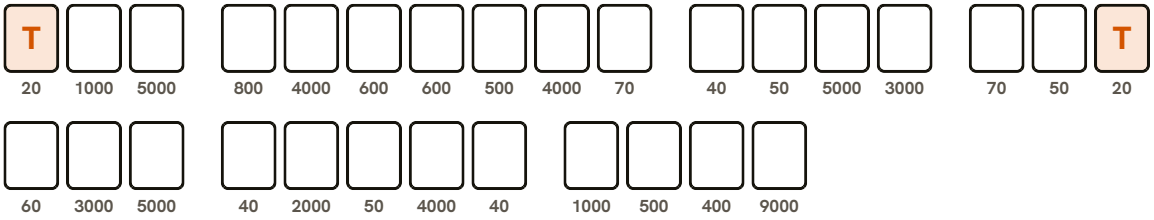
NAME	FORCE POWER	TECH TOOL	DOMINANT HAND	HAIRSTYLE	VULNERABILITY
Aria Organa	force jump	jetpack glide	left handed	spiky hair	bright flare
Jax Bridger	force jump	grapple line	right handed	shaved head	emp blast
Dain Vos	force lightning	stealth cloak	left handed	braided hair	bright flare
Titus Fett	force jump	smoke pellet	right handed	braided hair	bright flare
Thorne Bane	force lightning	jetpack glide	left handed	braided hair	sonic wave
Caelen Syndulla	force push	jetpack glide	left handed	shaved head	sonic wave
Zira Tano	force jump	stealth cloak	right handed	spiky hair	sonic wave
Juno Windu	force push	jetpack glide	left handed	braided hair	bright flare
Kaelen Vex	force lightning	grapple line	left handed	shaved head	bright flare
Kira Wren	mind trick	stealth cloak	right handed	spiky hair	bright flare
Mira Sydulla	force push	droid hack	left handed	braided hair	bright flare
Darak Solo	mind trick	stealth cloak	left handed	braided hair	bright flare
Lyra Vizsla	force push	smoke pellet	left handed	spiky hair	emp blast
Veda Calrissian	force jump	grapple line	right handed	braided hair	bright flare
Orin Skywalker	mind trick	droid hack	right handed	spiky hair	emp blast
Kora Revan	mind trick	grapple line	right handed	braided hair	emp blast
Zell Malak	force push	stealth cloak	left handed	braided hair	bright flare
Nix Dooku	force lightning	grapple line	right handed	spiky hair	emp blast
Brix Kenobi	saber throw	stealth cloak	right handed	spiky hair	sonic wave
Tarris Ren	saber throw	smoke pellet	right handed	shaved head	emp blast
Soren Crest	mind trick	droid hack	left handed	braided hair	emp blast

make your own at mathcrackers.com

CLUE 1 Place value

A holo-deck terminal shows security codes with digit values to decode.

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



What is the value of the 2 in 6,828? ☐ → T

What is the value of the 9 in 9,452? ☐ → K

What is the value of the 5 in 521? ☐ → A

What is the value of the 8 in 839? ☐ → V

What is the value of the 4 in 4,619? ☐ → I

What is the value of the 4 in 8,642? ☐ → D

What is the value of the 5 in 75,402? ☐ → E

What is the value of the 7 in 278? ☐ → N

What is the value of the 6 in 9,867? ☐ → U

What is the value of the 3 in 83,692? ☐ → S

What is the value of the 2 in 2,630? ☐ → R

What is the value of the 6 in 647? ☐ → L

What is the value of the 4 in 483? ☐ → C

What is the value of the 5 in 1,857? ☐ → O

What is the value of the 1 in 21,207? ☐ → H

Scratch space:

CLUE 2

Addition

Master Kael counts the total power cells recovered from the hangar bay.

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



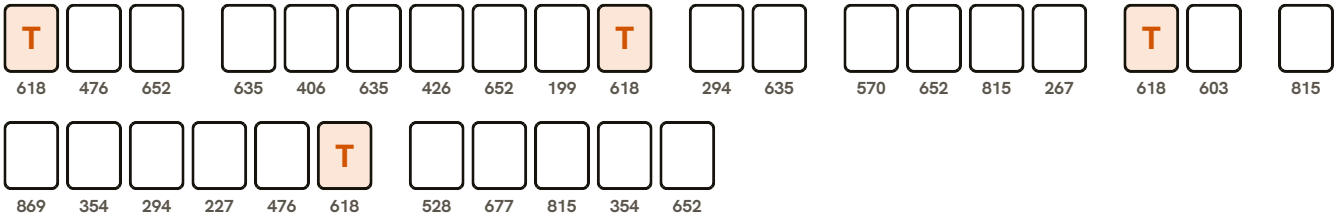
140 + 143 = ☐ → T	110 + 121 = ☐ → A	604 + 347 = ☐ → L
233 + 349 = ☐ → E	603 + 290 = ☐ → S	512 + 473 = ☐ → H
207 + 381 = ☐ → F	394 + 281 = ☐ → N	123 + 105 = ☐ → D
324 + 298 = ☐ → I	188 + 402 = ☐ → V	

Scratch space:

CLUE 3 Subtraction

> The rebels calculate how many starfighter parts remain in supply.

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



950 - 332 = ☐ → T

675 - 23 = ☐ → E

479 - 252 = ☐ → G

283 - 84 = ☐ → C

853 - 377 = ☐ → H

657 - 22 = ☐ → S

390 - 123 = ☐ → K

888 - 19 = ☐ → B

591 - 237 = ☐ → R

822 - 7 = ☐ → A

721 - 295 = ☐ → P

977 - 300 = ☐ → L

571 - 1 = ☐ → W

752 - 346 = ☐ → U

312 - 18 = ☐ → I

762 - 234 = ☐ → F

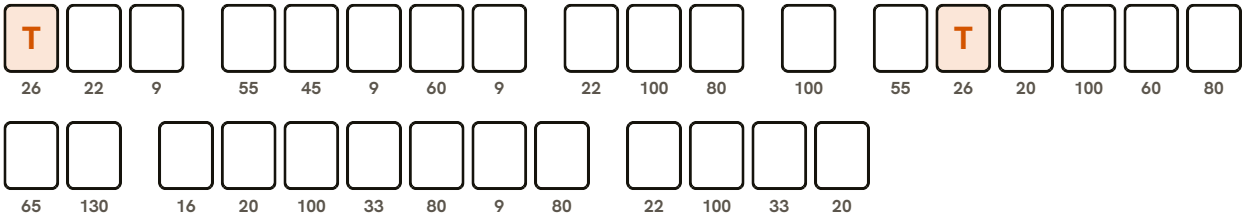
873 - 270 = ☐ → O

Scratch space:

CLUE 4 Skip counting

The patrol counts energy canisters in equal bundles across the outpost.

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



Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 ☐ → **T**

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **O**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 ☐ → **F**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 ☐ → **S**

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

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

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **E**

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

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

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

Scratch space:

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

> The Jedi Knights divide kyber crystals equally among their training 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:

18 ÷ 9 = ☐	20 ÷ 4 = ☐	40 ÷ 4 = ☐	84 ÷ 12 = ☐	80 ÷ 10 = ☐
21 ÷ 7 = ☐	12 ÷ 3 = ☐	1 ÷ 1 = ☐	99 ÷ 11 = ☐	120 ÷ 10 = ☐
22 ÷ 2 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain cut the locks with a saber throw, then vanished into a smoke pellet.
2. The villain blasted the grid with force lightning, then vanished with a stealth cloak.
3. The villain leaped over the wall with a force jump, then swung away on a grapple line.
4. The villain cut the locks with a saber throw, then swung away on a grapple line.
5. The villain used a force push on the vault door, then escaped using a jetpack glide.
6. The villain used a force push on the vault door, then vanished with a stealth cloak.
7. The villain leaped over the wall with a force jump, then escaped using a jetpack glide.
8. The villain tricked the guard with a mind trick, then overrode security with a droid hack.
9. The villain leaped over the wall with a force jump, then vanished into a smoke pellet.
10. The villain tricked the guard with a mind trick, then vanished with a stealth cloak.
11. The villain tricked the guard with a mind trick, then escaped using a jetpack glide.
12. The villain tricked the guard with a mind trick, then vanished into a smoke pellet.

TEACHER / PARENT

Answer Key

The Kyber Vault Heist

Culprit: Zell Malak

force push · stealth cloak · left handed · braided hair · bright flare

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE DROID HACK"

What is the value of the 2 in 6,828? = 20 (T) · What is the value of the 9 in 9,452? = 9000 (K) · What is the value of the 5 in 521? = 500 (A) · What is the value of the 8 in 839? = 800 (V) · What is the value of the 4 in 4,619? = 4000 (I) · What is the value of the 4 in 8,642? = 40 (D) · What is the value of the 5 in 75,402? = 5000 (E) · What is the value of the 7 in 278? = 70 (N) · What is the value of the 6 in 9,867? = 60 (U) · What is the value of the 3 in 83,692? = 3000 (S) · What is the value of the 2 in 2,630? = 2000 (R) · What is the value of the 6 in 647? = 600 (L) · What is the value of the 4 in 483? = 400 (C) · What is the value of the 5 in 1,857? = 50 (O) · What is the value of the 1 in 21,207? = 1000 (H)

Clue 2 (Addition): "THE VILLAIN IS LEFT HANDED"

140 + 143 = 283 (T) · 110 + 121 = 231 (A) · 604 + 347 = 951 (L) · 233 + 349 = 582 (E) · 603 + 290 = 893 (S) · 512 + 473 = 985 (H) · 207 + 381 = 588 (F) · 394 + 281 = 675 (N) · 123 + 105 = 228 (D) · 324 + 298 = 622 (I) · 188 + 402 = 590 (V)

Clue 3 (Subtraction): "THE SUSPECT IS WEAK TO A BRIGHT FLARE"

950 - 332 = 618 (T) · 675 - 23 = 652 (E) · 479 - 252 = 227 (G) · 283 - 84 = 199 (C) · 853 - 377 = 476 (H) · 657 - 22 = 635 (S) · 390 - 123 = 267 (K) · 888 - 19 = 869 (B) · 591 - 237 = 354 (R) · 822 - 7 = 815 (A) · 721 - 295 = 426 (P) · 977 - 300 = 677 (L) · 571 - 1 = 570 (W) · 752 - 346 = 406 (U) · 312 - 18 = 294 (I) · 762 - 234 = 528 (F) · 873 - 270 = 603 (O)

Clue 4 (Skip counting): "THE SCENE HAD A STRAND OF BRAIDED HAIR"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 = 60 (N) · Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, ___, 25, 30 = 20 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (I)

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

18 ÷ 9 = 2 · 20 ÷ 4 = 5 · 40 ÷ 4 = 10 · 84 ÷ 12 = 7 · 80 ÷ 10 = 8 · 21 ÷ 7 = 3 · 12 ÷ 3 = 4 · 1 ÷ 1 = 1 · 99 ÷ 11 = 9 · 120 ÷ 10 = 12 · 22 ÷ 2 = 11