The Mystery of the Stolen Kyber Crystal

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

Detective: _____ **Date:** _____

A critical Kyber crystal was stolen from the Jedi Temple Vault during a clone trooper shift change. Commander Rex needs your help to review the clues and unmask the culprit before the ship leaves the hangar.

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.

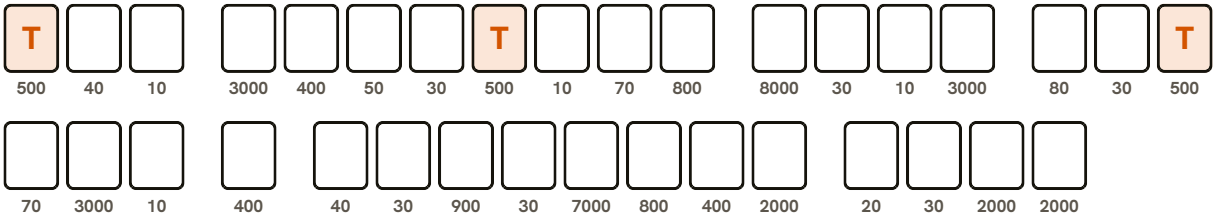
NAME	JEDI GEAR	TACTICAL TOOL	GRIP STYLE	HELMET STRIPE COLOR	DISARMING DEVICE
Trooper Bly	Plasma Shield	Code Breaker	Left Handed Grip	Red Helmet Stripe	Ion Pulse
Trooper Gree	Lightsaber	Code Breaker	Right Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Heavy	Grappling Hook	Code Breaker	Right Handed Grip	Blue Helmet Stripe	Sonic Blast
Trooper Slick	Energy Pike	Jetpack	Left Handed Grip	Yellow Helmet Stripe	Stun Grenade
Trooper Rex	Energy Pike	Code Breaker	Left Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Spark	Grappling Hook	Smoke Pellet	Right Handed Grip	Yellow Helmet Stripe	Ion Pulse
Trooper Boost	Energy Pike	Thermal Detonator	Right Handed Grip	Blue Helmet Stripe	Ion Pulse
Trooper Wolffe	Plasma Shield	Smoke Pellet	Right Handed Grip	Red Helmet Stripe	Stun Grenade
Trooper Dogma	Plasma Shield	Thermal Detonator	Left Handed Grip	Yellow Helmet Stripe	Ion Pulse
Trooper Kix	Grappling Hook	Smoke Pellet	Left Handed Grip	Yellow Helmet Stripe	Sonic Blast
Trooper Neyo	Energy Pike	Hologram Comm	Left Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Waxer	Force Blaster	Smoke Pellet	Left Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Droid	Force Blaster	Hologram Comm	Right Handed Grip	Blue Helmet Stripe	Ion Pulse
Trooper Tup	Energy Pike	Smoke Pellet	Right Handed Grip	Yellow Helmet Stripe	Stun Grenade
Trooper Appo	Energy Pike	Jetpack	Right Handed Grip	Yellow Helmet Stripe	Sonic Blast
Trooper Boil	Plasma Shield	Code Breaker	Left Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Echo	Lightsaber	Code Breaker	Right Handed Grip	Yellow Helmet Stripe	Ion Pulse
Trooper Fox	Force Blaster	Thermal Detonator	Left Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Jesse	Force Blaster	Hologram Comm	Left Handed Grip	Red Helmet Stripe	Sonic Blast
Trooper Fives	Energy Pike	Hologram Comm	Left Handed Grip	Red Helmet Stripe	Ion Pulse
Trooper Cody	Force Blaster	Thermal Detonator	Left Handed Grip	Red Helmet Stripe	Stun Grenade

make your own at mathcrackers.com

CLUE 1 Place value

Commander Rex inspects the digital keypad to check the place value of the vault access code.

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



What is the value of the 5 in 9,513? ☐ → T

What is the value of the 2 in 42,303? ☐ → M

What is the value of the 7 in 671? ☐ → U

What is the value of the 8 in 892? ☐ → R

What is the value of the 8 in 8,101? ☐ → D

What is the value of the 1 in 418? ☐ → E

What is the value of the 3 in 6,835? ☐ → O

What is the value of the 4 in 496? ☐ → A

What is the value of the 8 in 981? ☐ → N

What is the value of the 4 in 842? ☐ → H

What is the value of the 5 in 951? ☐ → B

What is the value of the 3 in 3,409? ☐ → S

What is the value of the 7 in 7,510? ☐ → G

What is the value of the 2 in 528? ☐ → C

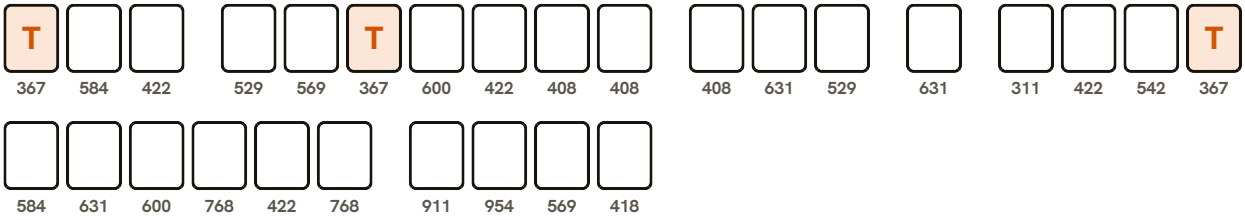
What is the value of the 9 in 6,906? ☐ → L

Scratch space:

CLUE 2 Addition

> Ahsoka adds up the total number of security canisters found near the vault entrance.

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



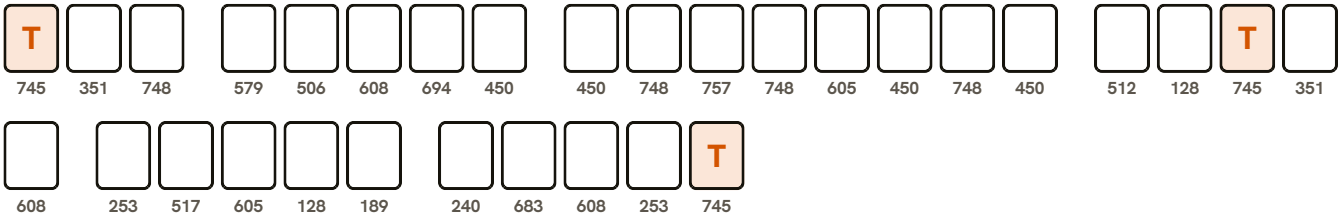
127 + 240 = ☐ → T	166 + 376 = ☐ → F	260 + 269 = ☐ → W
494 + 460 = ☐ → R	132 + 179 = ☐ → L	360 + 551 = ☐ → G
198 + 224 = ☐ → E	363 + 221 = ☐ → H	188 + 412 = ☐ → N
338 + 231 = ☐ → I	419 + 212 = ☐ → A	201 + 217 = ☐ → P
248 + 520 = ☐ → D	151 + 257 = ☐ → S	

Scratch space:

CLUE 3 Subtraction

> Anakin subtracts the damaged energy cells from the hangar power grid total.

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



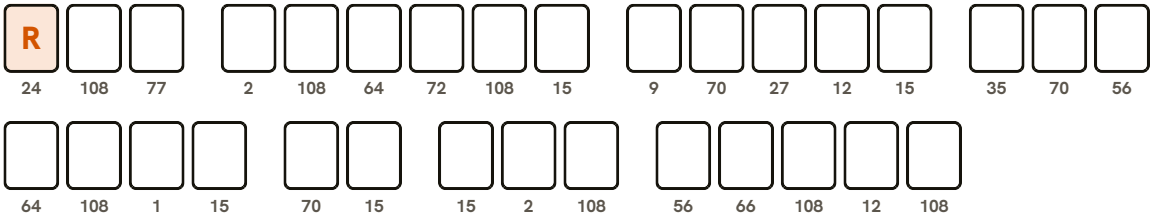
1103 - 358 = ☐ → T	854 - 160 = ☐ → R	969 - 364 = ☐ → N
677 - 171 = ☐ → U	466 - 277 = ☐ → C	832 - 382 = ☐ → D
490 - 237 = ☐ → S	848 - 269 = ☐ → G	331 - 203 = ☐ → I
739 - 227 = ☐ → W	669 - 318 = ☐ → H	817 - 209 = ☐ → A
783 - 100 = ☐ → L	993 - 245 = ☐ → E	475 - 235 = ☐ → B
996 - 239 = ☐ → F	808 - 291 = ☐ → O	

Scratch space:

CLUE 4 Multiplication facts (1-12)

Obi Wan checks the storage crates arranged in equal rows across the supply bay.

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



6 × 4 = ☐ → R

3 × 5 = ☐ → T

8 × 8 = ☐ → L

2 × 1 = ☐ → H

3 × 3 = ☐ → P

9 × 3 = ☐ → I

7 × 8 = ☐ → S

12 × 1 = ☐ → N

1 × 1 = ☐ → F

7 × 5 = ☐ → W

7 × 10 = ☐ → A

11 × 6 = ☐ → C

8 × 9 = ☐ → M

11 × 7 = ☐ → D

12 × 9 = ☐ → E

Scratch space:

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

> Plo Koon divides the remaining patrol rations equally among the squad members.

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:

12 ÷ 1 = ☐	48 ÷ 8 = ☐	10 ÷ 5 = ☐	35 ÷ 5 = ☐	4 ÷ 1 = ☐
18 ÷ 2 = ☐	64 ÷ 8 = ☐	10 ÷ 2 = ☐	88 ÷ 8 = ☐	36 ÷ 12 = ☐
7 ÷ 7 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain swung an energy pike, then received a hologram comm.
2. The villain swung an energy pike, then used a code breaker.
3. The villain raised a plasma shield, then ignited a jetpack.
4. The villain swung an energy pike, then threw a thermal detonator.
5. The villain fired a force blaster, then received a hologram comm.
6. The villain fired a force blaster, then dropped a smoke pellet.
7. The villain raised a plasma shield, then threw a thermal detonator.
8. The villain launched a grappling hook, then ignited a jetpack.
9. The villain launched a grappling hook, then received a hologram comm.
10. The villain raised a plasma shield, then used a code breaker.
11. The villain launched a grappling hook, then used a code breaker.
12. The villain fired a force blaster, then threw a thermal detonator.

TEACHER / PARENT

Answer Key

The Mystery of the Stolen Kyber Crystal

Culprit: Trooper Boil

Plasma Shield · Code Breaker · Left Handed Grip · Red Helmet Stripe · Sonic Blast

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SABOTEUR DOES NOT USE A HOLOGRAM COMM"

What is the value of the 5 in 9,513? = 500 (T) · What is the value of the 2 in 42,303? = 2000 (M) · What is the value of the 7 in 671? = 70 (U) · What is the value of the 8 in 892? = 800 (R) · What is the value of the 8 in 8,101? = 8000 (D) · What is the value of the 1 in 418? = 10 (E) · What is the value of the 3 in 6,835? = 30 (O) · What is the value of the 4 in 496? = 400 (A) · What is the value of the 8 in 981? = 80 (N) · What is the value of the 4 in 842? = 40 (H) · What is the value of the 5 in 951? = 50 (B) · What is the value of the 3 in 3,409? = 3000 (S) · What is the value of the 7 in 7,510? = 7000 (G) · What is the value of the 2 in 528? = 20 (C) · What is the value of the 9 in 6,906? = 900 (L)

Clue 2 (Addition): "THE WITNESS SAW A LEFT HANDED GRIP"

127 + 240 = 367 (T) · 166 + 376 = 542 (F) · 260 + 269 = 529 (W) · 494 + 460 = 954 (R) · 132 + 179 = 311 (L) · 360 + 551 = 911 (G) · 198 + 224 = 422 (E) · 363 + 221 = 584 (H) · 188 + 412 = 600 (N) · 338 + 231 = 569 (I) · 419 + 212 = 631 (A) · 201 + 217 = 418 (P) · 248 + 520 = 768 (D) · 151 + 257 = 408 (S)

Clue 3 (Subtraction): "THE GUARD DEFENDED WITH A SONIC BLAST"

1103 - 358 = 745 (T) · 854 - 160 = 694 (R) · 969 - 364 = 605 (N) · 677 - 171 = 506 (U) · 466 - 277 = 189 (C) · 832 - 382 = 450 (D) · 490 - 237 = 253 (S) · 848 - 269 = 579 (G) · 331 - 203 = 128 (I) · 739 - 227 = 512 (W) · 669 - 318 = 351 (H) · 817 - 209 = 608 (A) · 783 - 100 = 683 (L) · 993 - 245 = 748 (E) · 475 - 235 = 240 (B) · 996 - 239 = 757 (F) · 808 - 291 = 517 (O)

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

6 × 4 = 24 (R) · 3 × 5 = 15 (T) · 8 × 8 = 64 (L) · 2 × 1 = 2 (H) · 3 × 3 = 9 (P) · 9 × 3 = 27 (I) · 7 × 8 = 56 (S) · 12 × 1 = 12 (N) · 1 × 1 = 1 (F) · 7 × 5 = 35 (W) · 7 × 10 = 70 (A) · 11 × 6 = 66 (C) · 8 × 9 = 72 (M) · 11 × 7 = 77 (D) · 12 × 9 = 108 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Trooper Boil

12 ÷ 1 = 12 · 48 ÷ 8 = 6 · 10 ÷ 5 = 2 · 35 ÷ 5 = 7 · 4 ÷ 1 = 4 · 18 ÷ 2 = 9 · 64 ÷ 8 = 8 · 10 ÷ 2 = 5 · 88 ÷ 8 = 11 · 36 ÷ 12 = 3 · 7 ÷ 7 = 1