



The Cretaceous Canopy Heist

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 5-6

Detective: _____ Date: _____

An emergency alarm has shattered the peace of the volcanic valley. Someone bypassed the heavy steel paddock gates, freed a juvenile spinosaurus, and stole the encrypted dinosaur DNA database. The Chief Paleobotanist was locked in the prehistoric greenhouse to slow down our response. We must examine the clues, analyze the footprint logs, and identify the Rogue Handler before they escape the island.

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 Handler is _____

Possible suspects

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

NAME	PRIMARY GEAR	TECH TOOL	DOMINANT HAND	HAIR COLOR	VULNERABILITY
William Buckland	Raptor Stealth	Laser Lasso	Left-handed	Obsidian black	High pitches
Luis Chiappe	Triceratops Shield	Thermal Visor	Left-handed	Rusty orange	High pitches
Paul Sereno	Raptor Stealth	Amber Scanner	Right-handed	Rusty orange	Flash flares
Robert Bakker	Raptor Stealth	Amber Scanner	Left-handed	Rusty orange	Flash flares
Jack Horner	Raptor Stealth	Amber Scanner	Right-handed	Obsidian black	Sticky sap
Patricia Vickers	T-Rex Roarer	Sonic Whistle	Right-handed	Rusty orange	High pitches
Richard Owen	Triceratops Shield	Amber Scanner	Left-handed	Rusty orange	High pitches
Mary Anning	Triceratops Shield	Thermal Visor	Right-handed	Obsidian black	High pitches
Tilly Edinger	Raptor Stealth	Shock Boots	Left-handed	Neon green	Sticky sap
John Ostrom	T-Rex Roarer	Thermal Visor	Left-handed	Neon green	Sticky sap
Robert Muldoon	T-Rex Roarer	Amber Scanner	Right-handed	Rusty orange	High pitches
Gideon Mantell	T-Rex Roarer	Shock Boots	Left-handed	Rusty orange	High pitches
Barnum Brown	T-Rex Roarer	Shock Boots	Right-handed	Rusty orange	Sticky sap
Charles Knight	Triceratops Shield	Amber Scanner	Right-handed	Obsidian black	Flash flares
Othniel Marsh	Raptor Stealth	Laser Lasso	Right-handed	Neon green	Flash flares
Ian Malcolm	T-Rex Roarer	Sonic Whistle	Left-handed	Rusty orange	Sticky sap
Roy Chapman	Ankylosaur Smasher	Sonic Whistle	Left-handed	Neon green	High pitches
Henry Osborn	Ankylosaur Smasher	Laser Lasso	Left-handed	Rusty orange	High pitches
Sue Hendrickson	Pterodactyl Glider	Laser Lasso	Right-handed	Obsidian black	Flash flares
Karen Chin	Pterodactyl Glider	Shock Boots	Right-handed	Rusty orange	Flash flares
Alan Grant	Ankylosaur Smasher	Amber Scanner	Left-handed	Rusty orange	High pitches

CLUE 1 Place value

We found a dropped GPS tracker near the Raptor paddock. Its digital screen is damaged, only showing specific digit values in the hundreds, tens, and ones places.

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

T															T	
62	36	72	11	50	83	83	98	50	81	14	16	72	95	81	16	62
			T													
58	95	72	62	36	72	83	98	95	72	92	83	98	95	95	16	

What number has 6 tens and 2 ones? → **T**

What number has 1 ten and 1 one? → **V**

What number has 9 tens and 2 ones? → **R**

What number has 9 tens and 5 ones? → **S**

What number has 7 tens and 2 ones? → **E**

What number has 8 tens and 3 ones? → **L**

What number has 9 tens and 8 ones? → **A**

What number has 5 tens and 8 ones? → **U**

What number has 3 tens and 6 ones? → **H**

What number has 8 tens and 1 one? → **N**

What number has 1 ten and 6 ones? → **O**

What number has 5 tens and 0 ones? → **I**

What number has 1 ten and 4 ones? → **D**

Scratch space:

CLUE 2

A physical tally sheet was recovered from the control room. By adding up the escaped hatchlings from the nursery zones, we can decode the next step of our pursuit.

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

Diagram illustrating a sequence of 24 boxes arranged in two rows of 12 boxes each. The boxes contain numbers or the letter 'T'.

Row 1 (Top):

- Box 1: T
- Box 2: 68
- Box 3: 95
- Box 4: 73
- Box 5: 49
- Box 6: 48
- Box 7: 49
- Box 8: 63
- Box 9: 73
- Box 10: 67
- Box 11: T
- Box 12: 68

Row 2 (Bottom):

- Box 1: 82
- Box 2: 73
- Box 3: 96
- Box 4: 68
- Box 5: 95
- Box 6: 41
- Box 7: 60
- Box 8: 34
- Box 9: 63
- Box 10: 23
- Box 11: 77
- Box 12: 60

Row 3 (Bottom):

- Box 1: T
- Box 2: 68
- Box 3: 85
- Box 4: 60
- Box 5: T
- Box 6: 68
- Box 7: 95
- Box 8: 73
- Box 9: 54
- Box 10: 41
- Box 11: 82
- Box 12: 82

$34 + 34 = \boxed{} \rightarrow \boxed{\text{T}}$

$$37 + 48 = \boxed{} \rightarrow \boxed{\text{O}}$$

$19 + 35 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$38 + 22 = \boxed{} \rightarrow \boxed{\text{N}}$

$$62 + 34 = \boxed{} \rightarrow \boxed{\text{F}}$$

$16 + 18 = \square \rightarrow \boxed{\text{D}}$

$$30 + 18 = \boxed{} \rightarrow \boxed{\text{U}}$$

$50 + 27 = \square \rightarrow \boxed{\text{I}}$

$$32 + 41 = \boxed{} \rightarrow \boxed{\text{E}}$$

$39 + 24 = \boxed{} \rightarrow \boxed{\text{P}}$

$$44 + 51 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$13 + 10 = \boxed{} \rightarrow \boxed{\text{R}}$$

$41 + 26 = \boxed{} \rightarrow \boxed{\text{C}}$

$$57 + 25 = \boxed{} \rightarrow \boxed{\text{L}}$$

$34 + 15 = \boxed{} \rightarrow \boxed{\text{S}}$

$20 + 21 = \boxed{} \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 3

Subtraction

The volcanic steam valves were tampered with to hide the getaway. To figure out the override code, we must subtract the damaged pressure levels from the maximum safety limit.

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

T																	T
26	40	32	30	56	11	44	32	16	30	58	14	11	32	78	67	26	
						T											
40	58	11	40	81	58	26	16	40	32	78	42	56	44	14	78	42	

$48 - 22 = \square \rightarrow \boxed{\text{T}}$

$101 - 23 = \square \rightarrow \boxed{\text{D}}$

$76 - 18 = \square \rightarrow \boxed{\text{I}}$

$75 - 31 = \square \rightarrow \boxed{\text{U}}$

$49 - 19 = \square \rightarrow \boxed{\text{R}}$

$25 - 14 = \square \rightarrow \boxed{\text{G}}$

$71 - 4 = \square \rightarrow \boxed{\text{A}}$

$15 - 1 = \square \rightarrow \boxed{\text{N}}$

$42 - 2 = \square \rightarrow \boxed{\text{H}}$

$58 - 26 = \square \rightarrow \boxed{\text{E}}$

$95 - 39 = \square \rightarrow \boxed{\text{O}}$

$74 - 32 = \square \rightarrow \boxed{\text{S}}$

$55 - 39 = \square \rightarrow \boxed{\text{C}}$

$115 - 34 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 4 Skip counting

We discovered a trail of fossilized tracks leading into the deep jungle canopy. The footprints are arranged in neat, repeating groups, and counting them helps us track the escape route.

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

O																	
140	70	60	110	80	8	18	36	70	60	110	35	18	16	8	70	8	
							O										
18	110	60	80	80	8	35	140	110	36	120	8	30	8	110	39	8	

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **D**

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **E**

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **H**

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

Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 → **F**

Scratch space:

CLUE 5**Missing addends - the last clue**

The heavy security gates require a precise weight balance of supplies to open. We must calculate the missing value to unlock the final surveillance file.

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:

$10 + \underline{\quad} = 15$

$2 + \underline{\quad} = 9$

$4 + \underline{\quad} = 12$

$8 + \underline{\quad} = 19$

$2 + \underline{\quad} = 4$

$1 + \underline{\quad} = 5$

$3 + \underline{\quad} = 15$

$7 + \underline{\quad} = 13$

$8 + \underline{\quad} = 17$

$2 + \underline{\quad} = 5$

$6 + \underline{\quad} = 7$

Step 2 - cross out the sentence with each answer:

1. The villain activates raptor stealth camouflage, then tracks movement with a thermal visor.
2. The villain leaps off a cliff with a pterodactyl glider, then short-circuits security with shock boots.
3. The villain swings a triceratops shield to block lasers, then snags a running specimen with a laser lasso.
4. The villain unleashes a deafening t-rex roarer sonic blast, then tracks movement with a thermal visor.
5. The villain smashes through steel gates with an ankylosaur club, then scans the brush with an amber scanner.
6. The villain leaps off a cliff with a pterodactyl glider, then tracks movement with a thermal visor.
7. The villain unleashes a deafening t-rex roarer sonic blast, then short-circuits security with shock boots.
8. The villain swings a triceratops shield to block lasers, then scans the brush with an amber scanner.
9. The villain activates raptor stealth camouflage, then short-circuits security with shock boots.
10. The villain swings a triceratops shield to block lasers, then tracks movement with a thermal visor.
11. The villain unleashes a deafening t-rex roarer sonic blast, then snags a running specimen with a laser lasso.
12. The villain swings a triceratops shield to block lasers, then signals raptors with a sonic whistle.

Answer Key

The Cretaceous Canopy Heist

Culprit: Luis Chiappe

Triceratops Shield · Thermal Visor · Left-handed · Rusty orange · High pitches

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

Clue 1 (Place value): "THE VILLAIN DOES NOT USE THE LASER LASSO"

What number has 6 tens and 2 ones? = 62 (T) · What number has 1 ten and 1 one? = 11 (V) · What number has 9 tens and 2 ones? = 92 (R) · What number has 9 tens and 5 ones? = 95 (S) · What number has 7 tens and 2 ones? = 72 (E) · What number has 8 tens and 3 ones? = 83 (L) · What number has 9 tens and 8 ones? = 98 (A) · What number has 5 tens and 8 ones? = 58 (U) · What number has 3 tens and 6 ones? = 36 (H) · What number has 8 tens and 1 one? = 81 (N) · What number has 1 ten and 6 ones? = 16 (O) · What number has 5 tens and 0 ones? = 50 (I) · What number has 1 ten and 4 ones? = 14 (D)

Clue 2 (Addition): "THE SUSPECT LEFT HANDPRINT ON THE WALL"

$34 + 34 = 68$ (T) · $37 + 48 = 85$ (O) · $19 + 35 = 54$ (W) · $38 + 22 = 60$ (N) · $62 + 34 = 96$ (F) · $16 + 18 = 34$ (D) · $30 + 18 = 48$ (U) · $50 + 27 = 77$ (I) · $32 + 41 = 73$ (E) · $39 + 24 = 63$ (P) · $44 + 51 = 95$ (H) · $13 + 10 = 23$ (R) · $41 + 26 = 67$ (C) · $57 + 25 = 82$ (L) · $34 + 15 = 49$ (S) · $20 + 21 = 41$ (A)

Clue 3 (Subtraction): "THE ROGUE CRINGED AT HIGH PITCHED SOUNDS"

$48 - 22 = 26$ (T) · $101 - 23 = 78$ (D) · $76 - 18 = 58$ (I) · $75 - 31 = 44$ (U) · $49 - 19 = 30$ (R) · $25 - 14 = 11$ (G) · $71 - 4 = 67$ (A) · $15 - 1 = 14$ (N) · $42 - 2 = 40$ (H) · $58 - 26 = 32$ (E) · $95 - 39 = 56$ (O) · $74 - 32 = 42$ (S) · $55 - 39 = 16$ (C) · $115 - 34 = 81$ (P)

Clue 4 (Skip counting): "ORANGE STRANDS WERE SNAGGED ON THE FENCE"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (W) · Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 = 30 (F)

Clue 5 (Missing addends): surviving statement is box 10 → Luis Chiappe

$10 + \underline{\quad} = 15 = 5$ · $2 + \underline{\quad} = 9 = 7$ · $4 + \underline{\quad} = 12 = 8$ · $8 + \underline{\quad} = 19 = 11$ · $2 + \underline{\quad} = 4 = 2$ · $1 + \underline{\quad} = 5 = 4$ · $3 + \underline{\quad} = 15 = 12$ · $7 + \underline{\quad} = 13 = 6$ · $8 + \underline{\quad} = 17 = 9$ · $2 + \underline{\quad} = 5 = 3$ · $6 + \underline{\quad} = 7 = 1$