



The Great Dino Block Heist

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

Detective: _____ **Date:** _____

A rare fossilized egg was stolen from the central dig site in Prehistoric Craft Valley. The thief used trained dinos and blocky tools to break into the vault. Inspect the clues left at the camp to catch the culprit before they escape into the Nether.

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 Rustler is _____

Possible suspects

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

NAME	DINO COMPANION	MINING TOOL	HANDEDNESS	HELMET COLOR	FEAR
Parker Slate	Stegosaurus	Gold Hoe	Right Handed	Red Helmet	Creeper Hiss
Rowan Scale	Stegosaurus	Diamond Pickaxe	Right Handed	Green Helmet	Creeper Hiss
Sam Fossil	Ankylosaurus	Netherite Shovel	Left Handed	Green Helmet	Lava Blocks
Reese Talon	Velociraptor	Obsidian Axe	Left Handed	Green Helmet	Creeper Hiss
Sage Emerald	Pterodactyl	Gold Hoe	Left Handed	Green Helmet	Creeper Hiss
Finley Grid	Ankylosaurus	Gold Hoe	Right Handed	Green Helmet	Creeper Hiss
Peyton Spike	Triceratops	Gold Hoe	Right Handed	Blue Helmet	Creeper Hiss
Emerson Rock	Pterodactyl	Redstone Drill	Right Handed	Blue Helmet	TNT Blast
Tatum Fang	Stegosaurus	Redstone Drill	Right Handed	Blue Helmet	TNT Blast
Avery Redstone	Ankylosaurus	Diamond Pickaxe	Left Handed	Red Helmet	Lava Blocks
Taylor Diggs	Velociraptor	Redstone Drill	Left Handed	Blue Helmet	TNT Blast
Casey Bone	Ankylosaurus	Redstone Drill	Right Handed	Green Helmet	Creeper Hiss
Alex Block	Stegosaurus	Diamond Pickaxe	Right Handed	Red Helmet	TNT Blast
River Pixel	Ankylosaurus	Obsidian Axe	Left Handed	Blue Helmet	TNT Blast
Dakota Miner	Stegosaurus	Gold Hoe	Right Handed	Green Helmet	Creeper Hiss
Jordan Craft	Stegosaurus	Obsidian Axe	Right Handed	Red Helmet	TNT Blast
Logan Lapis	Ankylosaurus	Gold Hoe	Left Handed	Green Helmet	Creeper Hiss
Riley Quartz	Ankylosaurus	Redstone Drill	Left Handed	Green Helmet	Lava Blocks
Quinn Amber	Stegosaurus	Redstone Drill	Right Handed	Green Helmet	TNT Blast
Skyler Cubed	Velociraptor	Netherite Shovel	Right Handed	Green Helmet	Creeper Hiss
Hayden Bedrock	Triceratops	Gold Hoe	Right Handed	Red Helmet	Lava Blocks

CLUE 1 Place value

The fossil security terminal displays digits based on tens and ones to unlock the first clue.

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

T																T
67	62	19	72	57	92	92	81	57	42	88	44	19	63	42	44	67
						T					T					
26	63	19	81	42	19	67	62	19	69	57	67	19	63	62	44	72

What number has 6 tens and 7 ones? → **T**

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

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

What number has 4 tens and 2 ones? → **N**

What number has 1 ten and 9 ones? → **E**

What number has 4 tens and 4 ones? → **O**

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

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

What number has 5 tens and 7 ones? → **I**

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

What number has 6 tens and 9 ones? → **R**

What number has 8 tens and 8 ones? → **D**

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

Scratch space:

CLUE 2

Addition

You tally the mined obsidian blocks together to reveal the next clue.

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

F																			
24	46	46	82	69	78	90	21	82	61	61	70	46	59	48	78	90	75	70	82

70	48	21	60	41	60	61	59	90	21	75

$10 + 14 = \square \rightarrow \boxed{\text{F}}$

$23 + 23 = \square \rightarrow \boxed{\text{O}}$

$16 + 32 = \square \rightarrow \boxed{\text{A}}$

$63 + 27 = \square \rightarrow \boxed{\text{I}}$

$36 + 46 = \square \rightarrow \boxed{\text{T}}$

$44 + 25 = \square \rightarrow \boxed{\text{P}}$

$6 + 15 = \square \rightarrow \boxed{\text{N}}$

$28 + 13 = \square \rightarrow \boxed{\text{E}}$

$49 + 29 = \square \rightarrow \boxed{\text{R}}$

$41 + 18 = \square \rightarrow \boxed{\text{W}}$

$23 + 38 = \square \rightarrow \boxed{\text{S}}$

$21 + 39 = \square \rightarrow \boxed{\text{D}}$

$51 + 24 = \square \rightarrow \boxed{\text{G}}$

$47 + 23 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 3

Subtraction

You calculate how many craft items remain in the chest to narrow down the suspect file.

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

A					A														
64	89	52	44	78	64	53	78	47	43	57	57	62	57	43	23	52	44	44	
		A								A		A							
44	47	64	43	57	89	78	23	57	60	64	41	64	61						

$74 - 10 = \square \rightarrow \boxed{\text{A}}$

$86 - 25 = \square \rightarrow \boxed{\text{Y}}$

$67 - 14 = \square \rightarrow \boxed{\text{N}}$

$80 - 39 = \square \rightarrow \boxed{\text{W}}$

$83 - 36 = \square \rightarrow \boxed{\text{C}}$

$91 - 39 = \square \rightarrow \boxed{\text{I}}$

$110 - 32 = \square \rightarrow \boxed{\text{T}}$

$122 - 33 = \square \rightarrow \boxed{\text{D}}$

$54 - 31 = \square \rightarrow \boxed{\text{H}}$

$99 - 37 = \square \rightarrow \boxed{\text{P}}$

$68 - 8 = \square \rightarrow \boxed{\text{M}}$

$75 - 18 = \square \rightarrow \boxed{\text{E}}$

$81 - 38 = \square \rightarrow \boxed{\text{R}}$

$74 - 30 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 4 Skip counting

Following a sequence of dino tracks spaced in equal steps reveals another secret.

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

G																	
9	16	42	42	24	70	42	20	39	42	100	26	65	27	100	10	40	27
12	90	65	24	26	90	24	100	70	42	130	20	90	15	33			

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **G**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **C**

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **N**

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **L**

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

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

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

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

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

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

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

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

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

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

Scratch space:

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

Figuring out how many missing redstone dust piles are needed to complete the circuit gives the final 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:

$10 + \underline{\quad} = 17$

$5 + \underline{\quad} = 10$

$3 + \underline{\quad} = 5$

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

$9 + \underline{\quad} = 12$

$6 + \underline{\quad} = 14$

$8 + \underline{\quad} = 20$

$3 + \underline{\quad} = 12$

$10 + \underline{\quad} = 20$

$2 + \underline{\quad} = 13$

$5 + \underline{\quad} = 11$

Step 2 - cross out the sentence with each answer:

1. The villain flew in on a pterodactyl, then plowed with a gold hoe.
2. The villain marched with an ankylosaurus, then plowed with a gold hoe.
3. The villain tamed a triceratops, then chopped with an obsidian axe.
4. The villain marched with an ankylosaurus, then powered up a redstone drill.
5. The villain saddled up a stegosaurus, then plowed with a gold hoe.
6. The villain saddled up a stegosaurus, then dug with a netherite shovel.
7. The villain saddled up a stegosaurus, then swung a diamond pickaxe.
8. The villain tamed a triceratops, then swung a diamond pickaxe.
9. The villain marched with an ankylosaurus, then swung a diamond pickaxe.
10. The villain marched with an ankylosaurus, then dug with a netherite shovel.
11. The villain whistled for a velociraptor, then powered up a redstone drill.
12. The villain whistled for a velociraptor, then chopped with an obsidian axe.

Answer Key

The Great Dino Block Heist

Culprit: Casey Bone

Ankylosaurus · Redstone Drill · Right Handed · Green Helmet · Creeper Hiss

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A NETHERITE SHOVEL"

What number has 6 tens and 7 ones? = 67 (T) · What number has 6 tens and 2 ones? = 62 (H) · What number has 9 tens and 2 ones? = 92 (L) · What number has 4 tens and 2 ones? = 42 (N) · What number has 1 ten and 9 ones? = 19 (E) · What number has 4 tens and 4 ones? = 44 (O) · What number has 2 tens and 6 ones? = 26 (U) · What number has 8 tens and 1 one? = 81 (A) · What number has 5 tens and 7 ones? = 57 (I) · What number has 7 tens and 2 ones? = 72 (V) · What number has 6 tens and 9 ones? = 69 (R) · What number has 8 tens and 8 ones? = 88 (D) · What number has 6 tens and 3 ones? = 63 (S)

Clue 2 (Addition): "FOOTPRINTS SHOW A RIGHT HANDED SWING"

$10 + 14 = 24$ (F) · $23 + 23 = 46$ (O) · $16 + 32 = 48$ (A) · $63 + 27 = 90$ (I) · $36 + 46 = 82$ (T) · $44 + 25 = 69$ (P) · $6 + 15 = 21$ (N) · $28 + 13 = 41$ (E) · $49 + 29 = 78$ (R) · $41 + 18 = 59$ (W) · $23 + 38 = 61$ (S) · $21 + 39 = 60$ (D) · $51 + 24 = 75$ (G) · $47 + 23 = 70$ (H)

Clue 3 (Subtraction): "A DISTANT CREEPER HISS SCARED THEM AWAY"

$74 - 10 = 64$ (A) · $86 - 25 = 61$ (Y) · $67 - 14 = 53$ (N) · $80 - 39 = 41$ (W) · $83 - 36 = 47$ (C) · $91 - 39 = 52$ (I) · $110 - 32 = 78$ (T) · $122 - 33 = 89$ (D) · $54 - 31 = 23$ (H) · $99 - 37 = 62$ (P) · $68 - 8 = 60$ (M) · $75 - 18 = 57$ (E) · $81 - 38 = 43$ (R) · $74 - 30 = 44$ (S)

Clue 4 (Skip counting): "GREEN HELMET DUST WAS FOUND ON THE BLOCK"

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (K) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (M) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (T)

Clue 5 (Missing addends): surviving statement is box 4 → Casey Bone

$10 + \underline{\quad} = 17 = 7$ · $5 + \underline{\quad} = 10 = 5$ · $3 + \underline{\quad} = 5 = 2$ · $6 + \underline{\quad} = 7 = 1$ · $9 + \underline{\quad} = 12 = 3$ · $6 + \underline{\quad} = 14 = 8$ · $8 + \underline{\quad} = 20 = 12$ · $3 + \underline{\quad} = 12 = 9$ · $10 + \underline{\quad} = 20 = 10$ · $2 + \underline{\quad} = 13 = 11$ · $5 + \underline{\quad} = 11 = 6$