



The Golden Triceratops Caper

Grade 2 math · Addition, Place value, Subtraction, Skip counting, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

A sneaky thief has swiped the priceless Golden Triceratops Skull! The Dino Valley team needs your help to find the culprit before they escape the dig site.

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 Dino Thief is _____

Possible suspects

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

NAME	FAVORITE FOSSIL TOOL	DINO COMPANION	DOMINANT HAND	SAFETY HELMET COLOR	SILLY FEAR
Dong Zhiming	Dusting Brush	Stegosaurus Calf	Left Handed	Red Helmet	Flashlight Beams
Steve Brusatte	Rock Pick	T Rex Hatchling	Right Handed	Blue Helmet	Loud Sneezes
Sue Hendrickson	Dusting Brush	Triceratops Baby	Left Handed	Blue Helmet	Squeaky Toys
Robert Bakker	Magnifying Glass	Pterodactyl Chick	Right Handed	Red Helmet	Squeaky Toys
Jack Horner	Plaster Wrap	Velociraptor Pup	Left Handed	Red Helmet	Flashlight Beams
Danny Dino	Rock Pick	Triceratops Baby	Left Handed	Red Helmet	Flashlight Beams
Patricia Vickers	Rock Pick	Stegosaurus Calf	Left Handed	Blue Helmet	Squeaky Toys
Roxy Raptor	Rock Pick	T Rex Hatchling	Right Handed	Yellow Helmet	Flashlight Beams
Luis Alvarez	Magnifying Glass	T Rex Hatchling	Left Handed	Yellow Helmet	Loud Sneezes
Joan Wiffen	Rock Pick	Velociraptor Pup	Left Handed	Red Helmet	Squeaky Toys
Alan Grant	Chisel Hammer	Velociraptor Pup	Right Handed	Red Helmet	Loud Sneezes
Gideon Mantell	Dusting Brush	Pterodactyl Chick	Left Handed	Red Helmet	Squeaky Toys
Karen Chin	Magnifying Glass	Triceratops Baby	Left Handed	Red Helmet	Flashlight Beams
Paul Sereno	Magnifying Glass	Triceratops Baby	Left Handed	Red Helmet	Squeaky Toys
Rex Stone	Magnifying Glass	Velociraptor Pup	Left Handed	Blue Helmet	Loud Sneezes
Charles Marsh	Dusting Brush	Velociraptor Pup	Left Handed	Red Helmet	Squeaky Toys
Barnum Brown	Magnifying Glass	Velociraptor Pup	Right Handed	Blue Helmet	Loud Sneezes
Mary Anning	Plaster Wrap	Triceratops Baby	Right Handed	Blue Helmet	Squeaky Toys
Zofia Kielan	Plaster Wrap	T Rex Hatchling	Left Handed	Red Helmet	Squeaky Toys
Edward Cope	Dusting Brush	Triceratops Baby	Left Handed	Blue Helmet	Flashlight Beams
Ellie Sattler	Magnifying Glass	Velociraptor Pup	Left Handed	Yellow Helmet	Squeaky Toys

CLUE 1 Addition

Ranger Parker counted twenty-four raptor claws in one box and fifteen in another to unlock this clue.

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

T			T											T				
92	74	83	92	74	28	83	55	38	33	83	24	47	33	92	74	34	26	83
								T							T			
34	49	34	49	39	92	72	28	88	83	72	34	92	33	45	24			

$50 + 42 = \square \rightarrow$ T	$24 + 23 = \square \rightarrow$ N	$20 + 29 = \square \rightarrow$ B
$41 + 47 = \square \rightarrow$ C	$27 + 12 = \square \rightarrow$ Y	$27 + 28 = \square \rightarrow$ F
$10 + 18 = \square \rightarrow$ I	$8 + 18 = \square \rightarrow$ V	$42 + 30 = \square \rightarrow$ R
$23 + 15 = \square \rightarrow$ D	$13 + 11 = \square \rightarrow$ S	$27 + 56 = \square \rightarrow$ E
$19 + 15 = \square \rightarrow$ A	$44 + 30 = \square \rightarrow$ H	$14 + 19 = \square \rightarrow$ O
$17 + 28 = \square \rightarrow$ P		

Scratch space:

CLUE 2
Place value

To read the map coordinates, the team had to figure out the value of the digit in the tens place.

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

T							T												
93	22	99	15	92	99	45	93	86	92	99	45	93	22	86	68	38	99	38	
T																			
93	21	21	92	81	31	11	68	93											

What number has 9 tens and 3 ones? → **T**

What number has 8 tens and 6 ones? → **A**

What number has 1 ten and 5 ones? → **Y**

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

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

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

What number has 6 tens and 8 ones? → **N**

What number has 4 tens and 5 ones? → **F**

What number has 9 tens and 9 ones? → **E**

What number has 3 tens and 1 one? → **R**

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

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

What number has 2 tens and 1 one? → **O**

Scratch space:

CLUE 3

Subtraction

We found the clue after subtracting the broken fossil brushes from our total inventory.

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

T			T															
79	49	72	79	49	51	72	68	64	22	27	22	58	22	19	68	64	20	81

							T			
14	62	45	72	22	55	19	79	20	19	14

$96 - 17 = \square \rightarrow \boxed{\text{T}}$

$83 - 25 = \square \rightarrow \boxed{\text{W}}$

$26 - 7 = \square \rightarrow \boxed{\text{Y}}$

$90 - 35 = \square \rightarrow \boxed{\text{K}}$

$72 - 23 = \square \rightarrow \boxed{\text{H}}$

$84 - 22 = \square \rightarrow \boxed{\text{Q}}$

$101 - 20 = \square \rightarrow \boxed{\text{M}}$

$24 - 10 = \square \rightarrow \boxed{\text{S}}$

$76 - 12 = \square \rightarrow \boxed{\text{R}}$

$48 - 26 = \square \rightarrow \boxed{\text{A}}$

$50 - 5 = \square \rightarrow \boxed{\text{U}}$

$81 - 13 = \square \rightarrow \boxed{\text{F}}$

$55 - 35 = \square \rightarrow \boxed{\text{O}}$

$80 - 29 = \square \rightarrow \boxed{\text{I}}$

$36 - 9 = \square \rightarrow \boxed{\text{N}}$

$81 - 9 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 4 Skip counting

The footprints went deep into the swamp, and counting them by fives led us to a hidden note.

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

A													A			A	
100	130	22	8	140	22	25	90	22	26	40	26	130	100	10	27	100	40
25	22	21	26	50	22	140	12	28	8								

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, __, 45, 50 → **S**

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **F**

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

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

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 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **M**

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **I**

Scratch space:

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

We knew we needed twelve secure crates, but only had eight. Finding the missing amount gave us the final lead.

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:

$1 + \underline{\quad} = 6$

$7 + \underline{\quad} = 18$

$3 + \underline{\quad} = 13$

$6 + \underline{\quad} = 10$

$6 + \underline{\quad} = 18$

$4 + \underline{\quad} = 11$

$10 + \underline{\quad} = 16$

$1 + \underline{\quad} = 3$

$10 + \underline{\quad} = 19$

$4 + \underline{\quad} = 7$

$8 + \underline{\quad} = 16$

Step 2 - cross out the sentence with each answer:

1. The villain crept through the dusty canyon, then hid the prize in a dusty backpack.
2. The villain dug up the fossil bed, then paddled down the muddy river.
3. The villain dug up the fossil bed, then dashed into the fern forest.
4. The villain unlocked the secure display case, then zipped away on an electric cart.
5. The villain sneaked past the sleeping t-rex, then dashed into the fern forest.
6. The villain unlocked the secure display case, then jumped onto a roaring dirt bike.
7. The villain dug up the fossil bed, then jumped onto a roaring dirt bike.
8. The villain unlocked the secure display case, then dashed into the fern forest.
9. The villain crept through the dusty canyon, then zipped away on an electric cart.
10. The villain scrambled over the safety fence, then jumped onto a roaring dirt bike.
11. The villain sneaked past the sleeping t-rex, then hid the prize in a dusty backpack.
12. The villain scrambled over the safety fence, then dashed into the fern forest.

Answer Key

The Golden Triceratops Caper

Culprit: Joan Wiffen

Rock Pick · Velociraptor Pup · Left Handed · Red Helmet · Squeaky Toys

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT HAVE A BABY TRICERATOPS"

$50 + 42 = 92$ (T) · $24 + 23 = 47$ (N) · $20 + 29 = 49$ (B) · $41 + 47 = 88$ (C) · $27 + 12 = 39$ (Y) · $27 + 28 = 55$ (F) · $10 + 18 = 28$ (I) · $8 + 18 = 26$ (V) · $42 + 30 = 72$ (R) · $23 + 15 = 38$ (D) · $13 + 11 = 24$ (S) · $27 + 56 = 83$ (E) · $19 + 15 = 34$ (A) · $44 + 30 = 74$ (H) · $14 + 19 = 33$ (O) · $17 + 28 = 45$ (P)

Clue 2 (Place value): "THEY LEFT A LEFT HANDED TOOL PRINT"

What number has 9 tens and 3 ones? = 93 (T) · What number has 8 tens and 6 ones? = 86 (A) · What number has 1 ten and 5 ones? = 15 (Y) · What number has 3 tens and 8 ones? = 38 (D) · What number has 2 tens and 2 ones? = 22 (H) · What number has 8 tens and 1 one? = 81 (P) · What number has 6 tens and 8 ones? = 68 (N) · What number has 4 tens and 5 ones? = 45 (F) · What number has 9 tens and 9 ones? = 99 (E) · What number has 3 tens and 1 one? = 31 (R) · What number has 1 ten and 1 one? = 11 (I) · What number has 9 tens and 2 ones? = 92 (L) · What number has 2 tens and 1 one? = 21 (O)

Clue 3 (Subtraction): "THE THIEF RAN AWAY FROM SQUEAKY TOYS"

$96 - 17 = 79$ (T) · $83 - 25 = 58$ (W) · $26 - 7 = 19$ (Y) · $90 - 35 = 55$ (K) · $72 - 23 = 49$ (H) · $84 - 22 = 62$ (Q) · $101 - 20 = 81$ (M) · $24 - 10 = 14$ (S) · $76 - 12 = 64$ (R) · $48 - 26 = 22$ (A) · $50 - 5 = 45$ (U) · $81 - 13 = 68$ (F) · $55 - 35 = 20$ (O) · $80 - 29 = 51$ (I) · $36 - 9 = 27$ (N) · $81 - 9 = 72$ (E)

Clue 4 (Skip counting): "A RED HELMET STRAP WAS LEFT BEHIND"

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

Clue 5 (Missing addends): surviving statement is box 1 → Joan Wiffen

$1 + \underline{\quad} = 6 = 5$ · $7 + \underline{\quad} = 18 = 11$ · $3 + \underline{\quad} = 13 = 10$ · $6 + \underline{\quad} = 10 = 4$ · $6 + \underline{\quad} = 18 = 12$ · $4 + \underline{\quad} = 11 = 7$ · $10 + \underline{\quad} = 16 = 6$ · $1 + \underline{\quad} = 3 = 2$ · $10 + \underline{\quad} = 19 = 9$ · $4 + \underline{\quad} = 7 = 3$ · $8 + \underline{\quad} = 16 = 8$