



The Great Dinosaur Incubator Caper

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

Detective: _____ Date: _____

A sneaky troublemaker has locked up the precious T-Rex egg inside the Dino Valley incubator! We must find out which wrangler did it before the egg hatches.

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 dino-wrangler is _____

Possible suspects

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

NAME	FAVORITE DINOSAUR	GEAR TOOL	WRITING HAND	HELMET COLOR	DISTRACTION ITEM
Toby Digg	Triceratops	Laser pointer	Right handed	Fossil gray	Squeaky bone
Jack Horner	Triceratops	Laser pointer	Right handed	Amber orange	Sprinkler spray
Ellie Sattler	Triceratops	Mega-lasso	Right handed	Fossil gray	Sprinkler spray
Edward Cope	T-Rex	Night goggles	Right handed	Forest green	Squeaky bone
Owen Grady	Brachiosaurus	GPS tracker	Right handed	Fossil gray	Sprinkler spray
Sue Hendrickson	T-Rex	GPS tracker	Left handed	Fossil gray	Squeaky bone
Ranger Rita	Brachiosaurus	Mega-lasso	Right handed	Amber orange	Shiny mirror
Alan Grant	Stegosaurus	Laser pointer	Left handed	Fossil gray	Shiny mirror
Roy Andrews	Stegosaurus	Fossil brush	Left handed	Amber orange	Sprinkler spray
Bucky Bone	Raptor	Mega-lasso	Left handed	Forest green	Sprinkler spray
Barnum Brown	Raptor	Mega-lasso	Left handed	Amber orange	Squeaky bone
Claire Dearing	Brachiosaurus	Night goggles	Right handed	Fossil gray	Squeaky bone
Luis Alvarez	Stegosaurus	Mega-lasso	Right handed	Forest green	Squeaky bone
Penny Raptor	Brachiosaurus	Fossil brush	Right handed	Fossil gray	Sprinkler spray
Ian Malcolm	Triceratops	Laser pointer	Left handed	Fossil gray	Sprinkler spray
Othniel Marsh	Triceratops	GPS tracker	Left handed	Fossil gray	Squeaky bone
Ginger Andrews	Brachiosaurus	Mega-lasso	Right handed	Fossil gray	Sprinkler spray
Mary Anning	Triceratops	Laser pointer	Left handed	Forest green	Squeaky bone
Robert Bakker	Raptor	Laser pointer	Right handed	Fossil gray	Sprinkler spray
Dino Dan	Brachiosaurus	Laser pointer	Left handed	Fossil gray	Sprinkler spray
Paul Sereno	Stegosaurus	Mega-lasso	Left handed	Forest green	Squeaky bone

CLUE 1
Multiplication facts (1-12)

We count the rows of dinosaur fossil crates loaded onto the truck. Multiply the crates in each row to unlock the first clue.

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

T																				
120	44	6	27	12	6	50	45	9	21	100	70	70	50	100	12	25	4	6	27	
		T																		
12	4	120	110	27	6	50	72	49	27	120	132	50	3	45	6	132				

$10 \times 12 = \square \rightarrow$ T	$9 \times 8 = \square \rightarrow$ G	$5 \times 5 = \square \rightarrow$ D	
$4 \times 1 = \square \rightarrow$ O	$1 \times 3 = \square \rightarrow$ C	$2 \times 3 = \square \rightarrow$ E	$9 \times 5 = \square \rightarrow$ K
$3 \times 9 = \square \rightarrow$ S	$7 \times 10 = \square \rightarrow$ L	$10 \times 11 = \square \rightarrow$ U	
$1 \times 12 = \square \rightarrow$ N	$7 \times 7 = \square \rightarrow$ P	$12 \times 11 = \square \rightarrow$ R	
$5 \times 10 = \square \rightarrow$ A	$7 \times 3 = \square \rightarrow$ V	$11 \times 4 = \square \rightarrow$ H	
$9 \times 1 = \square \rightarrow$ Y	$10 \times 10 = \square \rightarrow$ I		

Scratch space:

CLUE 2

The radar scans the baby raptor paddock. It only shows rounded numbers. Round the dino counts to the nearest ten to reveal the next clue.

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

[illegible]

Round 836 to the nearest hundred $\rightarrow$ **T**

Round 6,867 to the nearest thousand $\rightarrow$ **S**

Round 8,087 to the nearest thousand → **N**

Round 90 to the nearest ten $\rightarrow$ **P**

Round 486 to the nearest hundred → **W**

Round 661 to the nearest hundred → **A**

Round 409 to the nearest hundred $\rightarrow$

Round 33 to the nearest ten $\rightarrow$ **R**

Round 58 to the nearest ten $\rightarrow$ **E**

Round 24 to the nearest ten $\rightarrow$ **U**

Round 257 to the nearest hundred → **D**

Round 49 to the nearest ten → **G**

Round 5,547 to the nearest thousand → **H**

Round 38 to the nearest ten $\rightarrow$ **C**

Scratch space:

CLUE 3 Addition

The rangers gather the fresh fern bundles to feed the triceratops. Add up all the bundles to find the third clue.

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

A													A	
930	751	713	258	663	653	826	915	542	258	751	713	258	930	327

		A						
751	412	930	258	542	708	801	410	542

								A			
801	258	455	436	878	915	542	241	930	826	542	258

$420 + 510 = \square \rightarrow \boxed{\text{A}}$

$145 + 113 = \square \rightarrow \boxed{\text{R}}$

$217 + 110 = \square \rightarrow \boxed{\text{Y}}$

$420 + 293 = \square \rightarrow \boxed{\text{P}}$

$383 + 325 = \square \rightarrow \boxed{\text{D}}$

$302 + 134 = \square \rightarrow \boxed{\text{U}}$

$363 + 179 = \square \rightarrow \boxed{\text{E}}$

$590 + 325 = \square \rightarrow \boxed{\text{L}}$

$415 + 463 = \square \rightarrow \boxed{\text{B}}$

$256 + 495 = \square \rightarrow \boxed{\text{S}}$

$178 + 232 = \square \rightarrow \boxed{\text{H}}$

$244 + 409 = \square \rightarrow \boxed{\text{N}}$

$180 + 232 = \square \rightarrow \boxed{\text{C}}$

$100 + 141 = \square \rightarrow \boxed{\text{M}}$

$328 + 498 = \square \rightarrow \boxed{\text{K}}$

$141 + 314 = \square \rightarrow \boxed{\text{O}}$

$451 + 350 = \square \rightarrow \boxed{\text{T}}$

$220 + 443 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4
Subtraction

A herd of gallimimus ran past the gate, leaving footprints. Subtract the muddy prints from the clean prints to get the fourth clue.

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

T																	
594	512	423	877	795	877	736	423	271	594	230	339	864	736	736	423	230	260

428	864	877	877	347	481	213	339	260	699	512	423	481	375	423	594	

$836 - 242 = \square \rightarrow \text{D}$

$986 - 287 = \square \rightarrow \text{Y}$

$810 - 15 = \square \rightarrow \text{U}$

$734 - 306 = \square \rightarrow \text{F}$

$314 - 101 = \square \rightarrow \text{G}$

$692 - 211 = \square \rightarrow \text{L}$

$271 - 41 = \square \rightarrow \text{D}$

$751 - 239 = \square \rightarrow \text{H}$

$382 - 111 = \square \rightarrow \text{C}$

$932 - 196 = \square \rightarrow \text{P}$

$935 - 58 = \square \rightarrow \text{S}$

$419 - 80 = \square \rightarrow \text{R}$

$450 - 27 = \square \rightarrow \text{E}$

$486 - 226 = \square \rightarrow \text{A}$

$987 - 123 = \square \rightarrow \text{O}$

$627 - 252 = \square \rightarrow \text{M}$

$408 - 61 = \square \rightarrow \text{I}$

Scratch space:

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

We have a batch of tasty leaves to share equally among the hungry stegosaurus. Divide the leaves to solve 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:

$10 \div 5 = \boxed{}$

$30 \div 3 = \boxed{}$

$9 \div 9 = \boxed{}$

$12 \div 1 = \boxed{}$

$8 \div 2 = \boxed{}$

$96 \div 12 = \boxed{}$

$45 \div 9 = \boxed{}$

$27 \div 3 = \boxed{}$

$24 \div 8 = \boxed{}$

$72 \div 12 = \boxed{}$

$63 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain roared at the sky, then escaped on a jeep.
2. The villain chased a raptor, then shook the camp bridge.
3. The villain roared at the sky, then dropped a walkie talkie.
4. The villain stomped through the mud, then hid in the fern forest.
5. The villain smashed a wooden fence, then dropped a walkie talkie.
6. The villain chased a raptor, then dropped a walkie talkie.
7. The villain roared at the sky, then hid in the fern forest.
8. The villain smashed a wooden fence, then shook the camp bridge.
9. The villain stole the golden fossil, then escaped on a jeep.
10. The villain stole the golden fossil, then scared the tourists.
11. The villain stole the golden fossil, then shook the camp bridge.
12. The villain chased a raptor, then escaped on a jeep.

Answer Key

The Great Dinosaur Incubator Caper

Culprit: Ginger Andrews

Brachiosaurus · Mega-lasso · Right handed · Fossil gray · Sprinkler spray

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY VILLAIN DOES NOT USE A GPS TRACKER"

$10 \times 12 = 120$ (T) · $9 \times 8 = 72$ (G) · $5 \times 5 = 25$ (D) · $4 \times 1 = 4$ (O) · $1 \times 3 = 3$ (C) · $2 \times 3 = 6$ (E) · $9 \times 5 = 45$ (K) · $3 \times 9 = 27$ (S) · $7 \times 10 = 70$ (L) · $10 \times 11 = 110$ (U) · $1 \times 12 = 12$ (N) · $7 \times 7 = 49$ (P) · $12 \times 11 = 132$ (R) · $5 \times 10 = 50$ (A) · $7 \times 3 = 21$ (V) · $11 \times 4 = 44$ (H) · $9 \times 1 = 9$ (Y) · $10 \times 10 = 100$ (I)

Clue 2 (Rounding): "THE SUSPECT WRITES WITH THEIR RIGHT HAND"

Round 836 to the nearest hundred = 800 (T) · Round 6,867 to the nearest thousand = 7000 (S) · Round 8,087 to the nearest thousand = 8000 (N) · Round 90 to the nearest ten = 90 (P) · Round 486 to the nearest hundred = 500 (W) · Round 661 to the nearest hundred = 700 (A) · Round 409 to the nearest hundred = 400 (I) · Round 33 to the nearest ten = 30 (R) · Round 58 to the nearest ten = 60 (E) · Round 24 to the nearest ten = 20 (U) · Round 257 to the nearest hundred = 300 (D) · Round 49 to the nearest ten = 50 (G) · Round 5,547 to the nearest thousand = 6000 (H) · Round 38 to the nearest ten = 40 (C)

Clue 3 (Addition): "A SPRINKLER SPRAY SCARED THE TROUBLEMAKER"

$420 + 510 = 930$ (A) · $145 + 113 = 258$ (R) · $217 + 110 = 327$ (Y) · $420 + 293 = 713$ (P) · $383 + 325 = 708$ (D) · $302 + 134 = 436$ (U) · $363 + 179 = 542$ (E) · $590 + 325 = 915$ (L) · $415 + 463 = 878$ (B) · $256 + 495 = 751$ (S) · $178 + 232 = 410$ (H) · $244 + 409 = 653$ (N) · $180 + 232 = 412$ (C) · $100 + 141 = 241$ (M) · $328 + 498 = 826$ (K) · $141 + 314 = 455$ (O) · $451 + 350 = 801$ (T) · $220 + 443 = 663$ (I)

Clue 4 (Subtraction): "THE SUSPECT DROPPED A FOSSIL GRAY HELMET"

$836 - 242 = 594$ (T) · $986 - 287 = 699$ (Y) · $810 - 15 = 795$ (U) · $734 - 306 = 428$ (F) · $314 - 101 = 213$ (G) · $692 - 211 = 481$ (L) · $271 - 41 = 230$ (D) · $751 - 239 = 512$ (H) · $382 - 111 = 271$ (C) · $932 - 196 = 736$ (P) · $935 - 58 = 877$ (S) · $419 - 80 = 339$ (R) · $450 - 27 = 423$ (E) · $486 - 226 = 260$ (A) · $987 - 123 = 864$ (O) · $627 - 252 = 375$ (M) · $408 - 61 = 347$ (I)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Ginger Andrews

$10 \div 5 = 2$ · $30 \div 3 = 10$ · $9 \div 9 = 1$ · $12 \div 1 = 12$ · $8 \div 2 = 4$ · $96 \div 12 = 8$ · $45 \div 9 = 5$ · $27 \div 3 = 9$ · $24 \div 8 = 3$ · $72 \div 12 = 6$ · $63 \div 9 = 7$