



The Dino Valley Egg Caper

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

Detective: _____ **Date:** _____

A sneaky thief has sneaked into the Prehistoric Safari Park and taken the prize dinosaur egg! Ranger Owen needs your help to track down the culprit before the egg hatches. Solve the math problems to unlock clues left around the valley!

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-Snatcher is _____

Possible suspects

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

NAME	DINO SUIT	SPECIAL TOOL	FOOTPRINT TYPE	CAP COLOR	DINO TREAT
Dr Fossil	Ptero Wings	Sonic Whistle	Right Footprint	Green Cap	Sweet Berry
Ranger Yasmina	Anky Shield	Grappling Hook	Right Footprint	Yellow Cap	Salty Leaf
Ranger Kenji	T Rex Mask	Lava Boots	Left Footprint	Green Cap	Sweet Berry
Trixie Tricera	Anky Shield	Sonic Whistle	Left Footprint	Green Cap	Sweet Berry
Claire Dearing	Anky Shield	Lava Boots	Right Footprint	Green Cap	Sweet Berry
Ranger Darius	Anky Shield	Sonic Whistle	Left Footprint	Yellow Cap	Salty Leaf
Ptero Pete	Raptor Boots	Lava Boots	Left Footprint	Green Cap	Salty Leaf
Ranger Owen	T Rex Mask	Lava Boots	Left Footprint	Red Cap	Salty Leaf
Ranger Ben	Anky Shield	Lava Boots	Left Footprint	Yellow Cap	Sour Melon
Ranger Toby	T Rex Mask	Grappling Hook	Right Footprint	Green Cap	Salty Leaf
Muldoon	Tricera Horns	Glider Wings	Left Footprint	Yellow Cap	Sweet Berry
Sasha Raptor	Anky Shield	Sonic Whistle	Right Footprint	Green Cap	Salty Leaf
Dr Sattler	Anky Shield	Camo Armor	Left Footprint	Green Cap	Sour Melon
Ranger Kayla	Tricera Horns	Glider Wings	Left Footprint	Green Cap	Sweet Berry
Stego Steve	Tricera Horns	Camo Armor	Left Footprint	Yellow Cap	Salty Leaf
Ranger Rex	Raptor Boots	Lava Boots	Left Footprint	Green Cap	Sweet Berry
Ranger Sammy	T Rex Mask	Grappling Hook	Left Footprint	Green Cap	Sweet Berry
Nedry	Raptor Boots	Camo Armor	Right Footprint	Green Cap	Sweet Berry
Dr Malcolm	Ptero Wings	Grappling Hook	Left Footprint	Green Cap	Sweet Berry
Anky Andy	Ptero Wings	Grappling Hook	Left Footprint	Red Cap	Salty Leaf
Dr Grant	Anky Shield	Grappling Hook	Right Footprint	Red Cap	Sweet Berry

CLUE 1 Rounding

The radar scanner in the dino nursery only shows rounded numbers. Round the baby raptor weights to help Ranger Owen fix the screen and find the first hint.

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

T			T											T				
5000	3000	7000	5000	3000	20	7000	4000	300	700	7000	900	60	700	5000	600	7000	90	200
							T											
8000	90	50	90	30	700	700	5000	900										

Round 4,846 to the nearest thousand → **T**

Round 907 to the nearest hundred → **S**

Round 658 to the nearest hundred → **O**

Round 342 to the nearest hundred → **D**

Round 562 to the nearest hundred → **W**

Round 50 to the nearest ten → **V**

Round 3,563 to the nearest thousand → **F**

Round 27 to the nearest ten → **B**

Round 92 to the nearest ten → **A**

Round 217 to the nearest hundred → **R**

Round 3,494 to the nearest thousand → **H**

Round 59 to the nearest ten → **N**

Round 7,789 to the nearest thousand → **L**

Round 17 to the nearest ten → **I**

Round 7,293 to the nearest thousand → **E**

Scratch space:

CLUE 2 Addition

We need to count all the triceratops toys to find where the thief went. Add up the piles of rubber bones so we can track the thief.

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

L																		
648	853	362	233	362	406	406	233	443	988	659	630	233	362	406	719	630	654	

630	853	412	988	233	656	853	630	853	541	233

$234 + 414 = \square \rightarrow \text{L}$

$259 + 282 = \square \rightarrow \text{S}$

$427 + 227 = \square \rightarrow \text{D}$

$281 + 162 = \square \rightarrow \text{P}$

$284 + 122 = \square \rightarrow \text{O}$

$406 + 250 = \square \rightarrow \text{H}$

$237 + 125 = \square \rightarrow \text{F}$

$451 + 268 = \square \rightarrow \text{U}$

$123 + 110 = \square \rightarrow \text{T}$

$375 + 613 = \square \rightarrow \text{R}$

$317 + 313 = \square \rightarrow \text{N}$

$231 + 181 = \square \rightarrow \text{A}$

$488 + 365 = \square \rightarrow \text{E}$

$204 + 455 = \square \rightarrow \text{I}$

Scratch space:

CLUE 3

Subtraction

A thief stole some heavy dino food bags. Subtract the food left in the bin from the starting amount to see how much they carried away.

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

T			T															T
752	802	550	752	802	452	550	540	112	103	446	550	503	503	531	550	550	752	

					T				T	
672	550	652	652	319	752	652	550	678	752	503

$973 - 221 = \square \rightarrow \boxed{\text{T}}$

$794 - 142 = \square \rightarrow \boxed{\text{R}}$

$774 - 234 = \square \rightarrow \boxed{\text{F}}$

$760 - 210 = \square \rightarrow \boxed{\text{E}}$

$528 - 209 = \square \rightarrow \boxed{\text{Y}}$

$609 - 157 = \square \rightarrow \boxed{\text{I}}$

$925 - 247 = \square \rightarrow \boxed{\text{A}}$

$738 - 292 = \square \rightarrow \boxed{\text{V}}$

$828 - 297 = \square \rightarrow \boxed{\text{W}}$

$185 - 73 = \square \rightarrow \boxed{\text{L}}$

$451 - 348 = \square \rightarrow \boxed{\text{O}}$

$943 - 141 = \square \rightarrow \boxed{\text{H}}$

$895 - 392 = \square \rightarrow \boxed{\text{S}}$

$985 - 313 = \square \rightarrow \boxed{\text{B}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The thief packed stolen fossil boxes in rows of equal size. Multiply the rows of fossils to find the total and unlock the next clue.

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

A							A			A			A					
7	16	25	120	120	22	20	7	54	72	7	60	60	22	7	16	16	120	5
		A			A													
56	22	7	88	25	7	22	20	81										

$7 \times 1 = \square \rightarrow \text{A}$

$8 \times 11 = \square \rightarrow \text{B}$

$7 \times 8 = \square \rightarrow \text{O}$

$5 \times 5 = \square \rightarrow \text{R}$

$1 \times 5 = \square \rightarrow \text{D}$

$2 \times 8 = \square \rightarrow \text{G}$

$6 \times 12 = \square \rightarrow \text{W}$

$10 \times 12 = \square \rightarrow \text{E}$

$11 \times 2 = \square \rightarrow \text{N}$

$9 \times 6 = \square \rightarrow \text{P}$

$2 \times 10 = \square \rightarrow \text{C}$

$9 \times 9 = \square \rightarrow \text{H}$

$6 \times 10 = \square \rightarrow \text{S}$

Scratch space:

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

We must share the fresh leaves equally among the hungry brachiosaurs. Divide the leaves to keep the dinos happy while we read 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:

$36 \div 12 = \boxed{}$

$4 \div 4 = \boxed{}$

$12 \div 2 = \boxed{}$

$8 \div 2 = \boxed{}$

$18 \div 9 = \boxed{}$

$72 \div 8 = \boxed{}$

$100 \div 10 = \boxed{}$

$77 \div 11 = \boxed{}$

$22 \div 2 = \boxed{}$

$72 \div 6 = \boxed{}$

$25 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain pinched the heavy stegosaurus plate, then escaped on the park monorail.
2. The villain pinched the heavy stegosaurus plate, then splashed through the swampy river.
3. The villain stole the glowing T-Rex egg, then splashed through the swampy river.
4. The villain took the golden raptor claw, then hid in the dark cave of bones.
5. The villain took the golden raptor claw, then climbed up the tall fern tree.
6. The villain swiped the ancient fossil brush, then splashed through the swampy river.
7. The villain grabbed the baby dino tracker, then escaped on the park monorail.
8. The villain grabbed the baby dino tracker, then climbed up the tall fern tree.
9. The villain swiped the ancient fossil brush, then hid in the dark cave of bones.
10. The villain took the golden raptor claw, then escaped on the park monorail.
11. The villain stole the glowing T-Rex egg, then hid in the dark cave of bones.
12. The villain stole the glowing T-Rex egg, then ran past the active mud volcano.

Answer Key

The Dino Valley Egg Caper

Culprit: Trixie Tricera

Anky Shield · Sonic Whistle · Left Footprint · Green Cap · Sweet Berry

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT WEAR LAVA BOOTS"

Round 4,846 to the nearest thousand = 5000 (T) · Round 907 to the nearest hundred = 900 (S) · Round 658 to the nearest hundred = 700 (O) · Round 342 to the nearest hundred = 300 (D) · Round 562 to the nearest hundred = 600 (W) · Round 50 to the nearest ten = 50 (V) · Round 3,563 to the nearest thousand = 4000 (F) · Round 27 to the nearest ten = 30 (B) · Round 92 to the nearest ten = 90 (A) · Round 217 to the nearest hundred = 200 (R) · Round 3,494 to the nearest thousand = 3000 (H) · Round 59 to the nearest ten = 60 (N) · Round 7,789 to the nearest thousand = 8000 (L) · Round 17 to the nearest ten = 20 (I) · Round 7,293 to the nearest thousand = 7000 (E)

Clue 2 (Addition): "LEFT FOOTPRINT FOUND NEAR THE NEST"

$234 + 414 = 648$ (L) · $259 + 282 = 541$ (S) · $427 + 227 = 654$ (D) · $281 + 162 = 443$ (P) · $284 + 122 = 406$ (O) · $406 + 250 = 656$ (H) · $237 + 125 = 362$ (F) · $451 + 268 = 719$ (U) · $123 + 110 = 233$ (T) · $375 + 613 = 988$ (R) · $317 + 313 = 630$ (N) · $231 + 181 = 412$ (A) · $488 + 365 = 853$ (E) · $204 + 455 = 659$ (I)

Clue 3 (Subtraction): "THE THIEF LOVES SWEET BERRY TREATS"

$973 - 221 = 752$ (T) · $794 - 142 = 652$ (R) · $774 - 234 = 540$ (F) · $760 - 210 = 550$ (E) · $528 - 209 = 319$ (Y) · $609 - 157 = 452$ (I) · $925 - 247 = 678$ (A) · $738 - 292 = 446$ (V) · $828 - 297 = 531$ (W) · $185 - 73 = 112$ (L) · $451 - 348 = 103$ (O) · $943 - 141 = 802$ (H) · $895 - 392 = 503$ (S) · $985 - 313 = 672$ (B)

Clue 4 (Multiplication facts (1-12)): "A GREEN CAP WAS SNAGGED ON A BRANCH"

$7 \times 1 = 7$ (A) · $8 \times 11 = 88$ (B) · $7 \times 8 = 56$ (O) · $5 \times 5 = 25$ (R) · $1 \times 5 = 5$ (D) · $2 \times 8 = 16$ (G) · $6 \times 12 = 72$ (W) · $10 \times 12 = 120$ (E) · $11 \times 2 = 22$ (N) · $9 \times 6 = 54$ (P) · $2 \times 10 = 20$ (C) · $9 \times 9 = 81$ (H) · $6 \times 10 = 60$ (S)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Trixie Tricera

$36 \div 12 = 3$ · $4 \div 4 = 1$ · $12 \div 2 = 6$ · $8 \div 2 = 4$ · $18 \div 9 = 2$ · $72 \div 8 = 9$ · $100 \div 10 = 10$ · $77 \div 11 = 7$ · $22 \div 2 = 11$ · $72 \div 6 = 12$ · $25 \div 5 = 5$