



The Dino-Reserve Escapade

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

Detective: _____ Date: _____

A mischievous dinosaur has escaped from its paddock! It grabbed the Chief Paleontologist's golden fossil scanner and bolted into the valley. We need to track the clues and identify the runaway before it hides the scanner forever!

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 Runaway Dino is _____

Possible suspects

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

NAME	NATURAL ABILITY	SPECIAL GEAR	FOOTPRINT TYPE	DINO COAT	CALMING METHOD
Gorgon	tail swipe	sparkly cape	right-clawed footprints	green scales	bright flashlights
Spike	sonic roar	feathered crest	right-clawed footprints	bumpy skin	loud whistles
Chomper	high jump	muddy boots	left-clawed footprints	green scales	loud whistles
Buster	armor plating	feathered crest	right-clawed footprints	green scales	bright flashlights
Dino	armor plating	night goggles	left-clawed footprints	striped feathers	sweet berries
Petrie	high jump	muddy boots	left-clawed footprints	bumpy skin	bright flashlights
Tiny	armor plating	feathered crest	right-clawed footprints	striped feathers	loud whistles
Rocky	super speed	muddy boots	left-clawed footprints	green scales	bright flashlights
Talon	tail swipe	feathered crest	left-clawed footprints	bumpy skin	bright flashlights
Pip	armor plating	feathered crest	left-clawed footprints	striped feathers	bright flashlights
Ducky	sonic roar	feathered crest	right-clawed footprints	green scales	bright flashlights
Rexy	sonic roar	muddy boots	right-clawed footprints	bumpy skin	loud whistles
Bronto	sonic roar	glowing collar	right-clawed footprints	green scales	sweet berries
Shiny	sonic roar	muddy boots	right-clawed footprints	striped feathers	bright flashlights
Littlefoot	tail swipe	muddy boots	left-clawed footprints	green scales	sweet berries
Raptor Blue	high jump	night goggles	right-clawed footprints	green scales	bright flashlights
Steggy	armor plating	feathered crest	left-clawed footprints	striped feathers	sweet berries
Barney	armor plating	sparkly cape	right-clawed footprints	striped feathers	sweet berries
Trixie	tail swipe	glowing collar	right-clawed footprints	green scales	bright flashlights
Don	armor plating	feathered crest	left-clawed footprints	bumpy skin	bright flashlights
Buddy	armor plating	feathered crest	right-clawed footprints	striped feathers	sweet berries

CLUE 1 Rounding

The security radar scanned the valley. It only gives a rounded number for the distance, but that is enough to track the getaway path!

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

T																T
290	30	2900	200	900	430	430	170	900	1700	230	50	2900	90	1700	50	290
5000	2900	170	2300	170	90	1100	170	2300	7000	430	70	2000	170	1100	2900	

Round 293 to the nearest ten → **T**

Round 5,243 to the nearest thousand → **W**

Round 2,922 to the nearest hundred → **E**

Round 31 to the nearest ten → **H**

Round 2,318 to the nearest thousand → **C**

Round 234 to the nearest ten → **D**

Round 67 to the nearest ten → **Y**

Round 173 to the nearest ten → **A**

Round 7,167 to the nearest thousand → **K**

Round 92 to the nearest ten → **S**

Round 1,105 to the nearest hundred → **P**

Round 1,734 to the nearest hundred → **N**

Round 53 to the nearest ten → **O**

Round 431 to the nearest ten → **L**

Round 2,265 to the nearest hundred → **R**

Round 154 to the nearest hundred → **V**

Round 898 to the nearest hundred → **I**

Scratch space:

CLUE 2 **Addition**

Ranger Sarah counted the broken branches on the trail. She needs to add them all up to find which way the dinosaur ran.

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

Diagram illustrating a sequence of 20 boxes arranged in two rows. The top row contains 10 boxes, and the bottom row contains 10 boxes. The first box in the top row and the 8th box in the top row are shaded orange and labeled 'T'. The 20th box in the top row is also shaded orange and labeled 'T'. Below each box is a number.

T							T										T
2702	8098	3340	7933	8427	6018	8098	2702	4456	6548	2717	2115	7588	6548	3340	3069	2702	
4606	3340	3340	5075	4492	2717	7933	6530	7588									

$$824 + 1878 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$928 + 1187 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$3405 + 2613 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$4871 + 3062 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$2648 + 4940 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4284 + 2264 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2397 + 4133 = \boxed{} \rightarrow \boxed{\text{K}}$$

$3260 + 5167 = \boxed{} \rightarrow \boxed{\text{I}}$

$3127 + 1365 = \boxed{} \rightarrow \boxed{\text{M}}$

$$2032 + 1037 = \boxed{} \rightarrow \boxed{\mathbf{F}}$$

$2840 + 1766 = \boxed{} \rightarrow \boxed{\text{D}}$

$1210 + 1507 = \boxed{} \rightarrow \boxed{\text{A}}$

$1902 + 3173 = \boxed{} \rightarrow \boxed{\text{P}}$

$1866 + 2590 = \boxed{} \rightarrow \boxed{\text{C}}$

$$2576 + 5522 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2052 + 1288 = \boxed{} \rightarrow \boxed{\text{E}}$$

Scratch space:

CLUE 3

Subtraction

We found a pile of stolen melons! By subtracting the leftover fruit from the starting total, we can calculate how much the beast ate.

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

S															
5456	5484	4312	8018	4312	8018	1491	4654	2547	4312	1491	5484	1781			

			S							S	S								
5146	8801	7742	5456	5484	8801	4312	1491	5484	1781	5456	5456	7936	7742	2547	5882	3732	4312	1781	

$6743 - 1287 = \square \rightarrow \boxed{\text{S}}$

$9153 - 352 = \square \rightarrow \boxed{\text{L}}$

$7404 - 2258 = \square \rightarrow \boxed{\text{F}}$

$3011 - 1230 = \square \rightarrow \boxed{\text{T}}$

$11520 - 3584 = \square \rightarrow \boxed{\text{C}}$

$6993 - 2339 = \square \rightarrow \boxed{\text{B}}$

$10039 - 2021 = \square \rightarrow \boxed{\text{N}}$

$8177 - 4445 = \square \rightarrow \boxed{\text{D}}$

$9249 - 3765 = \square \rightarrow \boxed{\text{H}}$

$7994 - 3682 = \square \rightarrow \boxed{\text{I}}$

$2692 - 145 = \square \rightarrow \boxed{\text{R}}$

$3232 - 1741 = \square \rightarrow \boxed{\text{G}}$

$8792 - 2910 = \square \rightarrow \boxed{\text{E}}$

$11769 - 4027 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The footprints are grouped in neat rows near the lake. Multiplying the rows by the prints in each row will give us the total count.

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

W																	
10	12	2	54	88	33	99	9	48	12	12	33	132	108	25	36	12	132
54	33	64	11	12	9	25	64	12									

$5 \times 2 = \square \rightarrow \boxed{W}$

$6 \times 9 = \square \rightarrow \boxed{O}$

$9 \times 12 = \square \rightarrow \boxed{C}$

$8 \times 8 = \square \rightarrow \boxed{T}$

$11 \times 3 = \square \rightarrow \boxed{N}$

$3 \times 3 = \square \rightarrow \boxed{G}$

$11 \times 1 = \square \rightarrow \boxed{H}$

$2 \times 1 = \square \rightarrow \boxed{F}$

$9 \times 11 = \square \rightarrow \boxed{D}$

$12 \times 4 = \square \rightarrow \boxed{R}$

$12 \times 11 = \square \rightarrow \boxed{S}$

$4 \times 9 = \square \rightarrow \boxed{L}$

$5 \times 5 = \square \rightarrow \boxed{A}$

$8 \times 11 = \square \rightarrow \boxed{U}$

$4 \times 3 = \square \rightarrow \boxed{E}$

Scratch space:

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

We have a bag of fossil brushes to share equally among the search teams. Let us divide them up to get everyone ready for the final hunt.

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:

$144 \div 12 = \boxed{}$

$30 \div 6 = \boxed{}$

$40 \div 5 = \boxed{}$

$4 \div 2 = \boxed{}$

$12 \div 4 = \boxed{}$

$42 \div 6 = \boxed{}$

$2 \div 2 = \boxed{}$

$50 \div 5 = \boxed{}$

$11 \div 1 = \boxed{}$

$108 \div 12 = \boxed{}$

$66 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain roared at the sky, then splashed mud with its boots.
2. The villain bashed through a wooden fence, then splashed mud with its boots.
3. The villain zoomed past the jeep, then shook its feathered crest.
4. The villain bashed through a wooden fence, then shook its feathered crest.
5. The villain slammed its giant tail, then activated its glowing collar.
6. The villain zoomed past the jeep, then flew off in a sparkly cape.
7. The villain zoomed past the jeep, then splashed mud with its boots.
8. The villain roared at the sky, then shook its feathered crest.
9. The villain leaped over the security wall, then flew off in a sparkly cape.
10. The villain roared at the sky, then flew off in a sparkly cape.
11. The villain roared at the sky, then activated its glowing collar.
12. The villain leaped over the security wall, then switched on its night goggles.

Answer Key

The Dino-Reserve Escapade

Culprit: Buster

armor plating · feathered crest · right-clawed footprints · green scales · bright flashlights

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT WEAR A SPARKLY CAPE"

Round 293 to the nearest ten = 290 (T) · Round 5,243 to the nearest thousand = 5000 (W) · Round 2,922 to the nearest hundred = 2900 (E) · Round 31 to the nearest ten = 30 (H) · Round 2,318 to the nearest thousand = 2000 (C) · Round 234 to the nearest ten = 230 (D) · Round 67 to the nearest ten = 70 (Y) · Round 173 to the nearest ten = 170 (A) · Round 7,167 to the nearest thousand = 7000 (K) · Round 92 to the nearest ten = 90 (S) · Round 1,105 to the nearest hundred = 1100 (P) · Round 1,734 to the nearest hundred = 1700 (N) · Round 53 to the nearest ten = 50 (O) · Round 431 to the nearest ten = 430 (L) · Round 2,265 to the nearest hundred = 2300 (R) · Round 154 to the nearest hundred = 200 (V) · Round 898 to the nearest hundred = 900 (I)

Clue 2 (Addition): "THE RIGHT CLAWS LEFT DEEP MARKS"

$824 + 1878 = 2702$ (T) · $928 + 1187 = 2115$ (W) · $3405 + 2613 = 6018$ (G) · $4871 + 3062 = 7933$ (R) · $2648 + 4940 = 7588$ (S) · $4284 + 2264 = 6548$ (L) · $2397 + 4133 = 6530$ (K) · $3260 + 5167 = 8427$ (I) · $3127 + 1365 = 4492$ (M) · $2032 + 1037 = 3069$ (F) · $2840 + 1766 = 4606$ (D) · $1210 + 1507 = 2717$ (A) · $1902 + 3173 = 5075$ (P) · $1866 + 2590 = 4456$ (C) · $2576 + 5522 = 8098$ (H) · $2052 + 1288 = 3340$ (E)

Clue 3 (Subtraction): "SHINING BRIGHT FLASHLIGHTS SCARED IT"

$6743 - 1287 = 5456$ (S) · $9153 - 352 = 8801$ (L) · $7404 - 2258 = 5146$ (F) · $3011 - 1230 = 1781$ (T) · $11520 - 3584 = 7936$ (C) · $6993 - 2339 = 4654$ (B) · $10039 - 2021 = 8018$ (N) · $8177 - 4445 = 3732$ (D) · $9249 - 3765 = 5484$ (H) · $7994 - 3682 = 4312$ (I) · $2692 - 145 = 2547$ (R) · $3232 - 1741 = 1491$ (G) · $8792 - 2910 = 5882$ (E) · $11769 - 4027 = 7742$ (A)

Clue 4 (Multiplication facts (1-12)): "WE FOUND GREEN SCALES ON THE GATE"

$5 \times 2 = 10$ (W) · $6 \times 9 = 54$ (O) · $9 \times 12 = 108$ (C) · $8 \times 8 = 64$ (T) · $11 \times 3 = 33$ (N) · $3 \times 3 = 9$ (G) · $11 \times 1 = 11$ (H) · $2 \times 1 = 2$ (F) · $9 \times 11 = 99$ (D) · $12 \times 4 = 48$ (R) · $12 \times 11 = 132$ (S) · $4 \times 9 = 36$ (L) · $5 \times 5 = 25$ (A) · $8 \times 11 = 88$ (U) · $4 \times 3 = 12$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Buster

$144 \div 12 = 12$ · $30 \div 6 = 5$ · $40 \div 5 = 8$ · $4 \div 2 = 2$ · $12 \div 4 = 3$ · $42 \div 6 = 7$ · $2 \div 2 = 1$ · $50 \div 5 = 10$ · $11 \div 1 = 11$ · $108 \div 12 = 9$ · $66 \div 11 = 6$