



The Great Raptor Paddock Breakout

Grade 4 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Alarm bells are screaming across the Mesozoic Dino-Reserve! Someone has bypassed the high-voltage security gates, snuck into the raptor breeding facility, and escaped with the priceless Golden Velociraptor Egg. The reserve is on lockdown, and we need our best junior detectives to crack the case.

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-Poacher is _____

Possible suspects

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

NAME	DINO SPECIALTY	INFILTRATION TOOL	HAND DEXTERITY	TRACE EVIDENCE	SUSPECTED VULNERABILITY
Roy Andrews	Raptor Whisperer	Sonic Whistle	Right-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
Luis Alvarez	T-Rex Wrangler	Seismic Boots	Right-Handed Lassoer	Green Camo Feathers	Blind in Bright Light
Gideon Mantell	Pterodactyl Pilot	Sonic Whistle	Right-Handed Lassoer	Green Camo Feathers	Afraid of Water Dinos
Ian Malcolm	T-Rex Wrangler	Dino-Language Translator	Right-Handed Lassoer	Brown Fossil Dust	Allergic to Fern Pollen
Lawrence Lambe	Triceratops Tracker	Seismic Boots	Left-Handed Lassoer	Red Synthetic Fibers	Afraid of Water Dinos
Claire Dearing	T-Rex Wrangler	Dino-Language Translator	Right-Handed Lassoer	Green Camo Feathers	Blind in Bright Light
Owen Grady	Pterodactyl Pilot	Seismic Boots	Right-Handed Lassoer	Green Camo Feathers	Blind in Bright Light
Alan Grant	Ankylosaurus Guard	Thermal Camouflage	Left-Handed Lassoer	Brown Fossil Dust	Blind in Bright Light
Barnum Brown	Raptor Whisperer	Thermal Camouflage	Right-Handed Lassoer	Red Synthetic Fibers	Afraid of Water Dinos
Mary Anning	Ankylosaurus Guard	Thermal Camouflage	Left-Handed Lassoer	Brown Fossil Dust	Afraid of Water Dinos
Paul Sereno	Raptor Whisperer	Thermal Camouflage	Right-Handed Lassoer	Red Synthetic Fibers	Blind in Bright Light
Ray Arnold	T-Rex Wrangler	Thermal Camouflage	Left-Handed Lassoer	Brown Fossil Dust	Blind in Bright Light
Richard Owen	T-Rex Wrangler	Seismic Boots	Left-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
Robert Muldoon	Ankylosaurus Guard	Dino-Language Translator	Right-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
Henry Osborn	Raptor Whisperer	Thermal Camouflage	Left-Handed Lassoer	Brown Fossil Dust	Blind in Bright Light
Edward Cope	Raptor Whisperer	Sonic Whistle	Left-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
William Buckland	Pterodactyl Pilot	Sonic Whistle	Right-Handed Lassoer	Brown Fossil Dust	Allergic to Fern Pollen
Ellie Sattler	Triceratops Tracker	Dino-Language Translator	Left-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
Othniel Marsh	T-Rex Wrangler	Thermal Camouflage	Right-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
Tilly Edinger	Ankylosaurus Guard	Sonic Whistle	Right-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen
Sue Hendrickson	T-Rex Wrangler	Dino-Language Translator	Right-Handed Lassoer	Green Camo Feathers	Allergic to Fern Pollen

Multiplication facts (1-12)

We inspect the main supply warehouse, where emergency dino-crates are stacked in equal rows. By calculating the total number of crates, we recover a shredded piece of the thief's digital profile.

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

T																T			
33	3	66	20	48	22	32	3	66	60	15	48	66	96	54	48	33			
77	96	66	33	3	66	60	56	22	88	32	22	56	48	77	7	88	22	44	66

$11 \times 3 = \boxed{} \rightarrow \boxed{\text{T}}$

$1 \times 3 = \boxed{} \rightarrow \boxed{\text{H}}$

$4 \times 8 = \boxed{} \rightarrow \boxed{\text{C}}$

$12 \times 5 = \boxed{} \rightarrow \mathbf{R}$

$$11 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{U}}$$

$12 \times 4 = \boxed{} \rightarrow \boxed{0}$

$$8 \times 11 = \boxed{} \rightarrow \boxed{\text{L}}$$

$11 \times 6 = \boxed{} \rightarrow \boxed{\text{E}}$

$11 \times 2 = \boxed{} \rightarrow \mathbf{A}$

$4 \times 5 = \boxed{} \rightarrow \boxed{\text{P}}$

$3 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$$6 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{N}}$$

$8 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$1 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{F}}$

$$8 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{M}}$$

$11 \times 4 = \boxed{} \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 2 Rounding

The motion sensors recorded a rapid getaway, but the tracking radar only displays distances rounded to the nearest ten yards. Solving this estimation reveals a vital clue about how they move.

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

T					T														
200	2900	30	230	50	200	30	170	5000	30	300	30	2300	700	70	1300	130	9000	30	7000
		T		T						T									
5000	2000	200	2900	200	2900	30	300	2000	230	2900	200	2900	50	700	7000				

Round 244 to the nearest hundred → **T**

Round 128 to the nearest ten → **C**

Round 1,619 to the nearest thousand → **I**

Round 721 to the nearest hundred → **N**

Round 9,217 to the nearest thousand → **K**

Round 2,894 to the nearest hundred → **H**

Round 4,575 to the nearest thousand → **W**

Round 226 to the nearest ten → **G**

Round 48 to the nearest ten → **A**

Round 67 to the nearest ten → **L**

Round 7,033 to the nearest thousand → **D**

Round 1,276 to the nearest hundred → **O**

Round 27 to the nearest ten → **E**

Round 297 to the nearest hundred → **R**

Round 173 to the nearest ten → **S**

Round 2,334 to the nearest hundred → **U**

Scratch space:

CLUE 3 Addition

The emergency response team tallies the recovered dino-trackers and heavy-duty nets. Adding these tallies together helps us piece together a discarded badge showing the thief's weakness.

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

S										S									
7953	6344	7643	7643	9693	2191	6344	4431	5947	8346	7953	3645	7643	8346	4849	3819	6344	7643	8346	4849

										S		
2614	3645	7643	4431	2191	8346	6344	2614	6520	7643	4849	6344	7953

$5387 + 2566 = \square \rightarrow \text{S}$	$1717 + 3132 = \square \rightarrow \text{R}$	$1812 + 1833 = \square \rightarrow \text{H}$
$4026 + 4320 = \square \rightarrow \text{A}$	$2511 + 1308 = \square \rightarrow \text{D}$	$1005 + 1186 = \square \rightarrow \text{I}$
$1386 + 1228 = \square \rightarrow \text{T}$	$4766 + 2877 = \square \rightarrow \text{E}$	$4039 + 1908 = \square \rightarrow \text{W}$
$4330 + 2190 = \square \rightarrow \text{F}$	$2609 + 3735 = \square \rightarrow \text{N}$	$2645 + 1786 = \square \rightarrow \text{G}$
$6577 + 3116 = \square \rightarrow \text{Z}$		

Scratch space:

CLUE 4
Subtraction

We compare the current weight of the dinosaur feed bags to the starting inventory. Finding the missing amount reveals a trace of physical evidence dropped during the escape.

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

W																			
8307	2373	7158	3322	8701	6157	4122	4164	3717	2373	2373	6157	7158	2373	2764	3203	2346	2373	3717	5952

3322	6157	3203	2346	2373	4164	2764	3203	2373

$8362 - 55 = \square \rightarrow \boxed{\text{W}}$

$5243 - 2870 = \square \rightarrow \boxed{\text{E}}$

$5161 - 1839 = \square \rightarrow \boxed{\text{O}}$

$9084 - 3132 = \square \rightarrow \boxed{\text{S}}$

$4150 - 1804 = \square \rightarrow \boxed{\text{H}}$

$8276 - 4112 = \square \rightarrow \boxed{\text{G}}$

$8017 - 3895 = \square \rightarrow \boxed{\text{D}}$

$10157 - 2999 = \square \rightarrow \boxed{\text{F}}$

$9653 - 3496 = \square \rightarrow \boxed{\text{N}}$

$10642 - 1941 = \square \rightarrow \boxed{\text{U}}$

$4766 - 1049 = \square \rightarrow \boxed{\text{R}}$

$7449 - 4685 = \square \rightarrow \boxed{\text{A}}$

$7073 - 3870 = \square \rightarrow \boxed{\text{T}}$

Scratch space:

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

The security team splits the patrol grid equally among the remaining rangers. Dividing the search zones reveals the final clue pointing to the thief's dominant hand.

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:

$28 \div 4 = \boxed{}$

$15 \div 3 = \boxed{}$

$36 \div 6 = \boxed{}$

$22 \div 2 = \boxed{}$

$5 \div 5 = \boxed{}$

$24 \div 12 = \boxed{}$

$4 \div 1 = \boxed{}$

$132 \div 11 = \boxed{}$

$27 \div 9 = \boxed{}$

$63 \div 7 = \boxed{}$

$70 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain soared over the canopy in a glider, then quieted the alarm with a sonic whistle.
2. The villain soared over the canopy in a glider, then escaped the mud using heavy seismic boots.
3. The villain followed footprints through the mud, then escaped the mud using heavy seismic boots.
4. The villain calmed the raptor pack with low clicks, then vanished completely using thermal camouflage.
5. The villain calmed the raptor pack with low clicks, then quieted the alarm with a sonic whistle.
6. The villain tamed the armored guard dinosaur, then quieted the alarm with a sonic whistle.
7. The villain lured the T-Rex away with fresh meat, then convinced the guard dino using a digital translator.
8. The villain tamed the armored guard dinosaur, then convinced the guard dino using a digital translator.
9. The villain tamed the armored guard dinosaur, then sneaked through the dark with glowing goggles.
10. The villain followed footprints through the mud, then quieted the alarm with a sonic whistle.
11. The villain followed footprints through the mud, then sneaked through the dark with glowing goggles.
12. The villain tamed the armored guard dinosaur, then vanished completely using thermal camouflage.

Answer Key

The Great Raptor Paddock Breakout

Culprit: Robert Muldoon

Ankylosaurus Guard · Dino-Language Translator · Right-Handed Lassoer · Green Camo Feathers · Allergic to Fern Pollen

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE POACHER DOES NOT USE THERMAL CAMOUFLAGE"

$11 \times 3 = 33$ (T) · $1 \times 3 = 3$ (H) · $4 \times 8 = 32$ (C) · $12 \times 5 = 60$ (R) · $11 \times 7 = 77$ (U) · $12 \times 4 = 48$ (O) · $8 \times 11 = 88$ (L) · $11 \times 6 = 66$ (E) · $11 \times 2 = 22$ (A) · $4 \times 5 = 20$ (P) · $3 \times 5 = 15$ (D) · $6 \times 9 = 54$ (N) · $8 \times 12 = 96$ (S) · $1 \times 7 = 7$ (F) · $8 \times 7 = 56$ (M) · $11 \times 4 = 44$ (G)

Clue 2 (Rounding): "THE GATES WERE UNLOCKED WITH THE RIGHT HAND"

Round 244 to the nearest hundred = 200 (T) · Round 128 to the nearest ten = 130 (C) · Round 1,619 to the nearest thousand = 2000 (I) · Round 721 to the nearest hundred = 700 (N) · Round 9,217 to the nearest thousand = 9000 (K) · Round 2,894 to the nearest hundred = 2900 (H) · Round 4,575 to the nearest thousand = 5000 (W) · Round 226 to the nearest ten = 230 (G) · Round 48 to the nearest ten = 50 (A) · Round 67 to the nearest ten = 70 (L) · Round 7,033 to the nearest thousand = 7000 (D) · Round 1,276 to the nearest hundred = 1300 (O) · Round 27 to the nearest ten = 30 (E) · Round 297 to the nearest hundred = 300 (R) · Round 173 to the nearest ten = 170 (S) · Round 2,334 to the nearest hundred = 2300 (U)

Clue 3 (Addition): "SNEEZING WAS HEARD NEAR THE GIANT FERNS"

$5387 + 2566 = 7953$ (S) · $1717 + 3132 = 4849$ (R) · $1812 + 1833 = 3645$ (H) · $4026 + 4320 = 8346$ (A) · $2511 + 1308 = 3819$ (D) · $1005 + 1186 = 2191$ (I) · $1386 + 1228 = 2614$ (T) · $4766 + 2877 = 7643$ (E) · $4039 + 1908 = 5947$ (W) · $4330 + 2190 = 6520$ (F) · $2609 + 3735 = 6344$ (N) · $2645 + 1786 = 4431$ (G) · $6577 + 3116 = 9693$ (Z)

Clue 4 (Subtraction): "WE FOUND GREEN FEATHERS ON THE GATE"

$8362 - 55 = 8307$ (W) · $5243 - 2870 = 2373$ (E) · $5161 - 1839 = 3322$ (O) · $9084 - 3132 = 5952$ (S) · $4150 - 1804 = 2346$ (H) · $8276 - 4112 = 4164$ (G) · $8017 - 3895 = 4122$ (D) · $10157 - 2999 = 7158$ (F) · $9653 - 3496 = 6157$ (N) · $10642 - 1941 = 8701$ (U) · $4766 - 1049 = 3717$ (R) · $7449 - 4685 = 2764$ (A) · $7073 - 3870 = 3203$ (T)

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

$28 \div 4 = 7$ · $15 \div 3 = 5$ · $36 \div 6 = 6$ · $22 \div 2 = 11$ · $5 \div 5 = 1$ · $24 \div 12 = 2$ · $4 \div 1 = 4$ · $132 \div 11 = 12$ · $27 \div 9 = 3$ · $63 \div 7 = 9$ · $70 \div 7 = 10$