



The Great Catnip Fossil Heist

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

Detective: _____ Date: _____

A sneaky thief has snatched the priceless Golden Catnip Fossil from the Grand Dig Site! Chief Inspector Whiskers needs your help to scan the tracks, solve the clues, and catch the sneaky culprit.

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-Cat 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	STEALTH TOOL	DOMINANT PAW	FUR TYPE	DISTRACTION
Oliver	Tricera-Couch Rider	Squeaky Mouse Drone	Right-pawed	Calico Fur	Warm Sunny Spots
Morris	Tricera-Couch Rider	Fish-Bone Grappling Hook	Right-pawed	Tabby Stripes	Crinkly Paper Bags
Berlioz	Raptor Pounce-Gear	Super Sticky Paw-Gloves	Right-pawed	Orange Patchwork	Crinkly Paper Bags
Simba	Tricera-Couch Rider	Yarn Ball Smoke Bomb	Left-pawed	Calico Fur	Shiny Red Dot
Nala	Ptera-Purr Glider	Super Sticky Paw-Gloves	Right-pawed	Orange Patchwork	Shiny Red Dot
Mittens	Stego-Tail Armor	Catnip Laser Pointer	Right-pawed	Tabby Stripes	Crinkly Paper Bags
Hobbes	T-Rex Meow-Suit	Yarn Ball Smoke Bomb	Right-pawed	Orange Patchwork	Shiny Red Dot
Tigger	Raptor Pounce-Gear	Catnip Laser Pointer	Left-pawed	Tabby Stripes	Shiny Red Dot
Toulouse	Stego-Tail Armor	Catnip Laser Pointer	Left-pawed	Calico Fur	Crinkly Paper Bags
Socks	Stego-Tail Armor	Fish-Bone Grappling Hook	Left-pawed	Orange Patchwork	Shiny Red Dot
Tom	Ptera-Purr Glider	Super Sticky Paw-Gloves	Left-pawed	Orange Patchwork	Shiny Red Dot
Marie	Raptor Pounce-Gear	Yarn Ball Smoke Bomb	Left-pawed	Orange Patchwork	Shiny Red Dot
Duchess	Ptera-Purr Glider	Super Sticky Paw-Gloves	Right-pawed	Calico Fur	Warm Sunny Spots
Sylvester	Ptera-Purr Glider	Yarn Ball Smoke Bomb	Left-pawed	Tabby Stripes	Shiny Red Dot
Boots	Tricera-Couch Rider	Fish-Bone Grappling Hook	Left-pawed	Orange Patchwork	Crinkly Paper Bags
Dino	T-Rex Meow-Suit	Super Sticky Paw-Gloves	Left-pawed	Orange Patchwork	Shiny Red Dot
Pawla	Stego-Tail Armor	Super Sticky Paw-Gloves	Left-pawed	Orange Patchwork	Shiny Red Dot
Whiskers	Tricera-Couch Rider	Yarn Ball Smoke Bomb	Right-pawed	Tabby Stripes	Shiny Red Dot
Barnaby	T-Rex Meow-Suit	Super Sticky Paw-Gloves	Left-pawed	Orange Patchwork	Warm Sunny Spots
Rex	Ptera-Purr Glider	Super Sticky Paw-Gloves	Left-pawed	Calico Fur	Warm Sunny Spots
Felix	T-Rex Meow-Suit	Squeaky Mouse Drone	Right-pawed	Orange Patchwork	Crinkly Paper Bags

CLUE 1 Rounding

The park radar scanned the suspect escaping, but the screen only shows rounded numbers. Round the distance to find the first clue!

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

T			T											T			
50	500	3000	50	500	40	3000	8000	400	90	3000	700	80	90	50	6000	700	3000

T														
50	500	3000	8000	40	700	500	600	90	80	3000	500	90	90	4000

Round 48 to the nearest ten → **T**

Round 3,345 to the nearest thousand → **E**

Round 6,467 to the nearest thousand → **U**

Round 8,315 to the nearest thousand → **F**

Round 89 to the nearest ten → **O**

Round 444 to the nearest hundred → **D**

Round 739 to the nearest hundred → **S**

Round 3,722 to the nearest thousand → **K**

Round 44 to the nearest ten → **I**

Round 501 to the nearest hundred → **H**

Round 600 to the nearest hundred → **B**

Round 78 to the nearest ten → **N**

Scratch space:

CLUE 2 Addition

We found two torn scraps of the suspect's journal. Put the page numbers together to see what they say!

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

T			T														T
714	570	370	714	570	395	370	781	367	370	535	584	370	693	367	370	781	714

							T	
604	535	404	604	987	395	491	714	693

$412 + 302 = \square \rightarrow \text{T}$	$206 + 364 = \square \rightarrow \text{H}$	$446 + 335 = \square \rightarrow \text{F}$
$245 + 246 = \square \rightarrow \text{N}$	$534 + 453 = \square \rightarrow \text{R}$	$313 + 222 = \square \rightarrow \text{A}$
$459 + 234 = \square \rightarrow \text{S}$	$170 + 197 = \square \rightarrow \text{L}$	$164 + 240 = \square \rightarrow \text{W}$
$223 + 381 = \square \rightarrow \text{P}$	$397 + 187 = \square \rightarrow \text{V}$	$260 + 135 = \square \rightarrow \text{I}$
$164 + 206 = \square \rightarrow \text{E}$		

Scratch space:

Subtraction

The thief snatched some dino-chow from the storage bin. Count how much is missing to reveal the next hint.

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

Diagram illustrating a sequence of numbers and positions:

Top Row (18 boxes):

- Box 1: T
- Box 2: 784
- Box 3: 161
- Box 4: 587
- Box 5: 343
- Box 6: 642
- Box 7: 833
- Box 8: 833
- Box 9: 117
- Box 10: 642
- Box 11: 731
- Box 12: 809
- Box 13: 161
- Box 14: 117
- Box 15: 122
- Box 16: 587
- Box 17: T
- Box 18: 784

Bottom Row (10 boxes):

- Box 1: 122
- Box 2: 161
- Box 3: 642
- Box 4: 731
- Box 5: 808
- Box 6: 527
- Box 7: 587
- Box 8: 133
- Box 9: T
- Box 10: 784

$1106 - 322 = \boxed{} \rightarrow \boxed{\text{T}}$

$$396 - 53 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$1233 - 400 = \boxed{} \rightarrow \boxed{\text{L}}$

$$781 - 50 = \boxed{} \rightarrow \boxed{\text{N}}$$

$773 - 131 = \boxed{} \rightarrow \boxed{\text{I}}$

$362 - 245 = \boxed{} \rightarrow \boxed{\text{A}}$

$$292 - 170 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$625 - 324 = \boxed{} \rightarrow \boxed{\text{O}}$$

$997 - 189 = \boxed{} \rightarrow \boxed{\text{Y}}$

$1059 - 250 = \boxed{} \rightarrow \boxed{\text{C}}$

$302 - 169 = \boxed{} \rightarrow \boxed{\text{D}}$

$190 - 29 = \boxed{} \rightarrow \boxed{\text{H}}$

$$609 - 22 = \boxed{} \rightarrow \boxed{\text{E}}$$

$547 - 20 = \boxed{} \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The suspect fled past rows of giant fossil crates. Count the total crates in this grid to uncover the trail!

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

T																	
108	99	9	30	16	132	5	132	84	33	32	110	16	11	6	6	9	110
11	16	33	84	28	9	4	60	16									

$12 \times 9 = \square$

→

T

$4 \times 8 = \square$

→

L

$5 \times 1 = \square$

→

M

$1 \times 4 = \square$

→

F

$3 \times 11 = \square$

→

A

$6 \times 10 = \square$

→

U

$10 \times 3 = \square$

→

C

$9 \times 1 = \square$

→

E

$11 \times 9 = \square$

→

H

$10 \times 11 = \square$

→

D

$2 \times 8 = \square$

→

R

$1 \times 11 = \square$

→

O

$7 \times 12 = \square$

→

N

$12 \times 11 = \square$

→

I

$6 \times 1 = \square$

→

P

$7 \times 4 = \square$

→

G

Scratch space:

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

A pack of tiny raptors found some clues but they will only trade if we share our treats equally among them.
Divide the treats!

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:

$36 \div 3 = \boxed{}$

$24 \div 3 = \boxed{}$

$8 \div 8 = \boxed{}$

$6 \div 1 = \boxed{}$

$30 \div 3 = \boxed{}$

$33 \div 3 = \boxed{}$

$108 \div 12 = \boxed{}$

$55 \div 11 = \boxed{}$

$84 \div 12 = \boxed{}$

$32 \div 8 = \boxed{}$

$36 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain stomped through the mud in a giant T-Rex suit, then climbed the walls with sticky paw-gloves.
2. The villain pounced over the fence using raptor claws, then tossed a yarn ball smoke bomb to escape.
3. The villain rode a heavy Tricera-couch through the gate, then zipped away using a fish-bone grappling hook.
4. The villain swung a spiky stego-tail to smash the glass case, then tossed a yarn ball smoke bomb to escape.
5. The villain stomped through the mud in a giant T-Rex suit, then tossed a yarn ball smoke bomb to escape.
6. The villain stomped through the mud in a giant T-Rex suit, then sent a squeaky mouse drone to map the exit.
7. The villain stomped through the mud in a giant T-Rex suit, then shined a catnip laser pointer to distract the guards.
8. The villain glided down from the canopy on ptera-purr wings, then climbed the walls with sticky paw-gloves.
9. The villain pounced over the fence using raptor claws, then climbed the walls with sticky paw-gloves.
10. The villain stomped through the mud in a giant T-Rex suit, then zipped away using a fish-bone grappling hook.
11. The villain pounced over the fence using raptor claws, then shined a catnip laser pointer to distract the guards.
12. The villain swung a spiky stego-tail to smash the glass case, then climbed the walls with sticky paw-gloves.

Answer Key

The Great Catnip Fossil Heist

Culprit: Marie

Raptor Pounce-Gear · Yarn Ball Smoke Bomb · Left-pawed · Orange Patchwork · Shiny Red Dot

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT USE THE FISH BONE HOOK"

Round 48 to the nearest ten = 50 (T) · Round 3,345 to the nearest thousand = 3000 (E) · Round 6,467 to the nearest thousand = 6000 (U) · Round 8,315 to the nearest thousand = 8000 (F) · Round 89 to the nearest ten = 90 (O) · Round 444 to the nearest hundred = 400 (D) · Round 739 to the nearest hundred = 700 (S) · Round 3,722 to the nearest thousand = 4000 (K) · Round 44 to the nearest ten = 40 (I) · Round 501 to the nearest hundred = 500 (H) · Round 600 to the nearest hundred = 600 (B) · Round 78 to the nearest ten = 80 (N)

Clue 2 (Addition): "THE THIEF LEAVES LEFT PAW PRINTS"

$412 + 302 = 714$ (T) · $206 + 364 = 570$ (H) · $446 + 335 = 781$ (F) · $245 + 246 = 491$ (N) · $534 + 453 = 987$ (R) · $313 + 222 = 535$ (A) · $459 + 234 = 693$ (S) · $170 + 197 = 367$ (L) · $164 + 240 = 404$ (W) · $223 + 381 = 604$ (P) · $397 + 187 = 584$ (V) · $260 + 135 = 395$ (I) · $164 + 206 = 370$ (E)

Clue 3 (Subtraction): "THE VILLAIN CHASES THE SHINY RED DOT"

$1106 - 322 = 784$ (T) · $396 - 53 = 343$ (V) · $1233 - 400 = 833$ (L) · $781 - 50 = 731$ (N) · $773 - 131 = 642$ (I) · $362 - 245 = 117$ (A) · $292 - 170 = 122$ (S) · $625 - 324 = 301$ (O) · $997 - 189 = 808$ (Y) · $1059 - 250 = 809$ (C) · $302 - 169 = 133$ (D) · $190 - 29 = 161$ (H) · $609 - 22 = 587$ (E) · $547 - 20 = 527$ (R)

Clue 4 (Multiplication facts (1-12)): "THE CRIMINAL DROPPED ORANGE FUR"

$12 \times 9 = 108$ (T) · $4 \times 8 = 32$ (L) · $5 \times 1 = 5$ (M) · $1 \times 4 = 4$ (F) · $3 \times 11 = 33$ (A) · $6 \times 10 = 60$ (U) · $10 \times 3 = 30$ (C) · $9 \times 1 = 9$ (E) · $11 \times 9 = 99$ (H) · $10 \times 11 = 110$ (D) · $2 \times 8 = 16$ (R) · $1 \times 11 = 11$ (O) · $7 \times 12 = 84$ (N) · $12 \times 11 = 132$ (I) · $6 \times 1 = 6$ (P) · $7 \times 4 = 28$ (G)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Marie

$36 \div 3 = 12$ · $24 \div 3 = 8$ · $8 \div 8 = 1$ · $6 \div 1 = 6$ · $30 \div 3 = 10$ · $33 \div 3 = 11$ · $108 \div 12 = 9$ · $55 \div 11 = 5$ · $84 \div 12 = 7$ · $32 \div 8 = 4$ · $36 \div 12 = 3$