



The Great Space-Cat Heist

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

Detective: _____ **Date:** _____

Oh no! A sneaky Astro-Cat has swiped the Golden T-Rex Fossil from the Star-Claw Museum! The suspect escaped into the cosmic jungles of Dino-Prime. We must use our math skills to scan the pawprints, gadgets, and clues to find the bandit before they escape the galaxy!

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 Space-Cat Bandit 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 UPGRADE	COSMIC GADGET	ACTIVE PAW	SPACESUIT FUR COLOR	DISTRACTION TOY
Laika Whiskers	Pterodactyl Glider	Laser Pointer Beam	Left Paw Dominant	Nebula Gray	Squeaky Toy Mouse
Rexy Paw	Raptor Speed Boots	Cosmic Yarn Ball	Left Paw Dominant	Calico Orange	Shiny Laser Dot
Nova Nibbles	Triceratops Shield	Gravity Fish Toy	Right Paw Dominant	Calico Orange	Squeaky Toy Mouse
Barnaby Boots	Ankylosaurus Club	Gravity Fish Toy	Left Paw Dominant	Stardust White	Squeaky Toy Mouse
Raptor Purr	Pterodactyl Glider	Gravity Fish Toy	Left Paw Dominant	Calico Orange	Scratching Post
Felix Orbit	Pterodactyl Glider	Gravity Fish Toy	Right Paw Dominant	Calico Orange	Scratching Post
Captain Mittens	Pterodactyl Glider	Gravity Fish Toy	Left Paw Dominant	Stardust White	Squeaky Toy Mouse
Baron Barnaby	T-Rex Jetpack	Meow Translator	Left Paw Dominant	Nebula Gray	Squeaky Toy Mouse
Ziggy Stardust	T-Rex Jetpack	Starlight Catnip	Right Paw Dominant	Nebula Gray	Squeaky Toy Mouse
Gizmo Galaxy	Pterodactyl Glider	Gravity Fish Toy	Right Paw Dominant	Stardust White	Squeaky Toy Mouse
Trixie Tricera	Pterodactyl Glider	Gravity Fish Toy	Left Paw Dominant	Nebula Gray	Scratching Post
Leo Leonis	Pterodactyl Glider	Cosmic Yarn Ball	Right Paw Dominant	Stardust White	Shiny Laser Dot
Dino Dust	T-Rex Jetpack	Laser Pointer Beam	Right Paw Dominant	Stardust White	Squeaky Toy Mouse
Nebula Nose	T-Rex Jetpack	Laser Pointer Beam	Left Paw Dominant	Stardust White	Squeaky Toy Mouse
Stego Scratch	T-Rex Jetpack	Starlight Catnip	Left Paw Dominant	Stardust White	Scratching Post
Sputnik Smudge	Pterodactyl Glider	Cosmic Yarn Ball	Left Paw Dominant	Stardust White	Squeaky Toy Mouse
Astrid Astro	Raptor Speed Boots	Cosmic Yarn Ball	Left Paw Dominant	Calico Orange	Squeaky Toy Mouse
Luna Rover	Ankylosaurus Club	Gravity Fish Toy	Right Paw Dominant	Calico Orange	Squeaky Toy Mouse
Ziggy Claw	Raptor Speed Boots	Meow Translator	Left Paw Dominant	Nebula Gray	Shiny Laser Dot
Cosmo Claw	Pterodactyl Glider	Starlight Catnip	Left Paw Dominant	Stardust White	Squeaky Toy Mouse
Comet Tail	Pterodactyl Glider	Laser Pointer Beam	Right Paw Dominant	Stardust White	Squeaky Toy Mouse

CLUE 1 Addition

To pack for the space jungle hunt, the rescue team must add up all the laser-fish rations. Help them count the total cans to unlock the first clue!

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

T								T											
3587	2960	7361	5175	8174	7186	6172	9624	3587	6172	4879	7361	3178	7186	4879	3587	5346	3178	7361	
8174	7923	4879	3178	2583	9624	7923	4052	8174	4262	7186	5175	8174	3904	3904					

$2054 + 1533 = \boxed{} \rightarrow \boxed{T}$

$2441 + 4745 = \boxed{} \rightarrow \boxed{N}$

$2997 + 2178 = \boxed{} \rightarrow \boxed{B}$

$1353 + 1825 = \boxed{} \rightarrow \boxed{S}$

$3350 + 1529 = \boxed{} \rightarrow \boxed{O}$

$1327 + 1256 = \boxed{} \rightarrow \boxed{M}$

$1684 + 2220 = \boxed{} \rightarrow \boxed{L}$

$1551 + 1409 = \boxed{} \rightarrow \boxed{H}$

$2197 + 2065 = \boxed{} \rightarrow \boxed{R}$

$2067 + 1985 = \boxed{} \rightarrow \boxed{Y}$

$2645 + 2701 = \boxed{} \rightarrow \boxed{U}$

$4107 + 5517 = \boxed{} \rightarrow \boxed{I}$

$4233 + 1939 = \boxed{} \rightarrow \boxed{D}$

$3394 + 4529 = \boxed{} \rightarrow \boxed{C}$

$3293 + 4881 = \boxed{} \rightarrow \boxed{A}$

$3140 + 4221 = \boxed{} \rightarrow \boxed{E}$

Scratch space:

CLUE 2 Rounding

Our starship radar detects cosmic energy waves, but the screen only shows numbers rounded to the nearest ten. Round the energy readings to pinpoint the sector!

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

T									T				T					
500	5000	130	700	300	700	4300	130	290	500	70	130	430	500					
							T	T								T		
4300	370	20	4300	90	3700	7000	500	500	90	370	3700	70	700	900	7000	500	5000	130
			T															
70	130	430	500															

Round 522 to the nearest hundred →

T

Round 898 to the nearest hundred →

O

Round 86 to the nearest ten →

R

Round 69 to the nearest ten →

L

Round 127 to the nearest ten →

E

Round 252 to the nearest hundred →

U

Round 292 to the nearest ten →

C

Round 4,292 to the nearest hundred →

P

Round 6,796 to the nearest thousand →

N

Round 23 to the nearest ten →

W

Round 3,726 to the nearest hundred →

I

Round 431 to the nearest ten →

F

Round 372 to the nearest ten →

A

Round 5,048 to the nearest thousand →

H

Round 717 to the nearest hundred →

S

Scratch space:

CLUE 3

Subtraction

A clumsy raptor knocked over our rocket fuel cells, and some rolled away. Subtract the lost cells to find out how much fuel we have left!

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

A					A										
4529	4295	7165	7628	8640	4529	1207	5528	5914	4147	5528	2915	4147	7628	4295	8640
											A				
4295	5914	4147	8764	8764	8640	5826	5914	1679	8640	3055	4529	8813	5826	6816	5914

$4635 - 106 = \square \rightarrow \boxed{\text{A}}$

$4392 - 1477 = \square \rightarrow \boxed{\text{M}}$

$10619 - 1855 = \square \rightarrow \boxed{\text{P}}$

$5862 - 4183 = \square \rightarrow \boxed{\text{H}}$

$11464 - 3836 = \square \rightarrow \boxed{\text{U}}$

$9649 - 836 = \square \rightarrow \boxed{\text{N}}$

$6930 - 1016 = \square \rightarrow \boxed{\text{T}}$

$6920 - 2773 = \square \rightarrow \boxed{\text{O}}$

$7796 - 1970 = \square \rightarrow \boxed{\text{D}}$

$8699 - 59 = \square \rightarrow \boxed{\text{E}}$

$3660 - 605 = \square \rightarrow \boxed{\text{B}}$

$10435 - 3270 = \square \rightarrow \boxed{\text{Q}}$

$8958 - 3430 = \square \rightarrow \boxed{\text{Y}}$

$10679 - 3863 = \square \rightarrow \boxed{\text{I}}$

$8812 - 4517 = \square \rightarrow \boxed{\text{S}}$

$3778 - 2571 = \square \rightarrow \boxed{\text{K}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

We found rows of mysterious glowing dinosaur eggs arranged in perfect grids. Multiply the rows and columns to count the eggs and light our path!

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

T															
80	120	21	21	8	110	56	8	21	12	15	54	6	120	81	32

	T						T				T				T				
55	80	81	20	32	90	55	80	54	120	56	80	21	12	81	80	120	81	56	20

$8 \times 10 = \square \rightarrow \boxed{\text{T}}$

$5 \times 4 = \square \rightarrow \boxed{\text{R}}$

$2 \times 3 = \square \rightarrow \boxed{\text{L}}$

$9 \times 6 = \square \rightarrow \boxed{\text{W}}$

$7 \times 3 = \square \rightarrow \boxed{\text{E}}$

$10 \times 9 = \square \rightarrow \boxed{\text{U}}$

$4 \times 2 = \square \rightarrow \boxed{\text{N}}$

$10 \times 12 = \square \rightarrow \boxed{\text{H}}$

$12 \times 1 = \square \rightarrow \boxed{\text{C}}$

$9 \times 9 = \square \rightarrow \boxed{\text{A}}$

$11 \times 5 = \square \rightarrow \boxed{\text{S}}$

$3 \times 5 = \square \rightarrow \boxed{\text{O}}$

$11 \times 10 = \square \rightarrow \boxed{\text{G}}$

$8 \times 4 = \square \rightarrow \boxed{\text{D}}$

$8 \times 7 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

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

The friendly space triceratops will help us cross the river if we share our star-berries equally. Divide the berries among the dinosaurs to get across!

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:

$21 \div 7 = \boxed{}$

$120 \div 12 = \boxed{}$

$64 \div 8 = \boxed{}$

$21 \div 3 = \boxed{}$

$30 \div 6 = \boxed{}$

$20 \div 5 = \boxed{}$

$8 \div 4 = \boxed{}$

$5 \div 5 = \boxed{}$

$120 \div 10 = \boxed{}$

$24 \div 4 = \boxed{}$

$72 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain smashes through the gate with an ankylosaurus club, then shines a blinding laser pointer beam.
2. The villain dashes away in raptor speed boots, then tosses a heavy gravity fish toy.
3. The villain soars overhead on a pterodactyl glider, then tosses a heavy gravity fish toy.
4. The villain blasts off using a t-rex jetpack, then screams into a loud meow translator.
5. The villain blocks the doorway with a triceratops shield, then drops a bag of sleepy starlight catnip.
6. The villain blasts off using a t-rex jetpack, then rolls a giant cosmic yarn ball.
7. The villain blocks the doorway with a triceratops shield, then screams into a loud meow translator.
8. The villain blasts off using a t-rex jetpack, then shines a blinding laser pointer beam.
9. The villain dashes away in raptor speed boots, then rolls a giant cosmic yarn ball.
10. The villain soars overhead on a pterodactyl glider, then drops a bag of sleepy starlight catnip.
11. The villain smashes through the gate with an ankylosaurus club, then tosses a heavy gravity fish toy.
12. The villain dashes away in raptor speed boots, then shines a blinding laser pointer beam.

Answer Key

The Great Space-Cat Heist

Culprit: Barnaby Boots

Ankylosaurus Club · Gravity Fish Toy · Left Paw Dominant · Stardust White · Squeaky Toy Mouse

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT USE A COSMIC YARN BALL"

$2054 + 1533 = 3587$ (T) · $2441 + 4745 = 7186$ (N) · $2997 + 2178 = 5175$ (B) · $1353 + 1825 = 3178$ (S) · $3350 + 1529 = 4879$ (O) · $1327 + 1256 = 2583$ (M) · $1684 + 2220 = 3904$ (L) · $1551 + 1409 = 2960$ (H) · $2197 + 2065 = 4262$ (R) · $2067 + 1985 = 4052$ (Y) · $2645 + 2701 = 5346$ (U) · $4107 + 5517 = 9624$ (I) · $4233 + 1939 = 6172$ (D) · $3394 + 4529 = 7923$ (C) · $3293 + 4881 = 8174$ (A) · $3140 + 4221 = 7361$ (E)

Clue 2 (Rounding): "THE SUSPECT LEFT PAWPRINT TRAILS ON THE LEFT"

Round 522 to the nearest hundred = 500 (T) · Round 898 to the nearest hundred = 900 (O) · Round 86 to the nearest ten = 90 (R) · Round 69 to the nearest ten = 70 (L) · Round 127 to the nearest ten = 130 (E) · Round 252 to the nearest hundred = 300 (U) · Round 292 to the nearest ten = 290 (C) · Round 4,292 to the nearest hundred = 4300 (P) · Round 6,796 to the nearest thousand = 7000 (N) · Round 23 to the nearest ten = 20 (W) · Round 3,726 to the nearest hundred = 3700 (I) · Round 431 to the nearest ten = 430 (F) · Round 372 to the nearest ten = 370 (A) · Round 5,048 to the nearest thousand = 5000 (H) · Round 717 to the nearest hundred = 700 (S)

Clue 3 (Subtraction): "A SQUEAKY TOY MOUSE STOPPED THE BANDIT"

$4635 - 106 = 4529$ (A) · $4392 - 1477 = 2915$ (M) · $10619 - 1855 = 8764$ (P) · $5862 - 4183 = 1679$ (H) · $11464 - 3836 = 7628$ (U) · $9649 - 836 = 8813$ (N) · $6930 - 1016 = 5914$ (T) · $6920 - 2773 = 4147$ (O) · $7796 - 1970 = 5826$ (D) · $8699 - 59 = 8640$ (E) · $3660 - 605 = 3055$ (B) · $10435 - 3270 = 7165$ (Q) · $8958 - 3430 = 5528$ (Y) · $10679 - 3863 = 6816$ (I) · $8812 - 4517 = 4295$ (S) · $3778 - 2571 = 1207$ (K)

Clue 4 (Multiplication facts (1-12)): "THE ENGINE COWL HAD STARDUST WHITE CAT HAIR"

$8 \times 10 = 80$ (T) · $5 \times 4 = 20$ (R) · $2 \times 3 = 6$ (L) · $9 \times 6 = 54$ (W) · $7 \times 3 = 21$ (E) · $10 \times 9 = 90$ (U) · $4 \times 2 = 8$ (N) · $10 \times 12 = 120$ (H) · $12 \times 1 = 12$ (C) · $9 \times 9 = 81$ (A) · $11 \times 5 = 55$ (S) · $3 \times 5 = 15$ (O) · $11 \times 10 = 110$ (G) · $8 \times 4 = 32$ (D) · $8 \times 7 = 56$ (I)

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

$21 \div 7 = 3$ · $120 \div 12 = 10$ · $64 \div 8 = 8$ · $21 \div 3 = 7$ · $30 \div 6 = 5$ · $20 \div 5 = 4$ · $8 \div 4 = 2$ · $5 \div 5 = 1$ · $120 \div 10 = 12$ · $24 \div 4 = 6$ · $72 \div 8 = 9$