



The Cyber-Pasture Mystery

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

Detective: _____ Date: _____

A rogue cyber-unicorn has broken into the Sparkle-Core Laboratory and stolen the Master Glitter-Drive! We must scan the tracks and check the power logs to find out which unit did it before the power grid crashes.

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 cyber-unicorn is _____

Possible suspects

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

NAME	PRIMARY SPARK-ABILITY	BACKUP GEAR	HOOF SYSTEM	MANE MATERIAL	SYSTEM VULNERABILITY
Star Hopper	Laser-Horn Beam	Neon-Flash	Right-hoof dominant	Chrome Mane	Rust-Dust
Bolt Hopper	Electro-Shield	Gear-Bite	Right-hoof dominant	Fiber-Optic Mane	Water-Sprays
Circuit Buttercup	Sonic Neigh	Gear-Bite	Right-hoof dominant	Copper Mane	Water-Sprays
Zenith Mane	Rainbow-Jet Dash	Glow-Tail Whip	Right-hoof dominant	Copper Mane	Water-Sprays
Gear Celeste	Laser-Horn Beam	Cyber-Wings	Right-hoof dominant	Chrome Mane	Water-Sprays
Sprite Silicon	Electro-Shield	Spark-Missile	Right-hoof dominant	Copper Mane	Water-Sprays
Dynamo Puff	Sonic Neigh	Gear-Bite	Left-hoof dominant	Fiber-Optic Mane	Water-Sprays
Alan Glitter	Plasma-Hoof Stomp	Neon-Flash	Left-hoof dominant	Copper Mane	Water-Sprays
Robo Jewel	Laser-Horn Beam	Cyber-Wings	Right-hoof dominant	Fiber-Optic Mane	Water-Sprays
Matrix Nova	Plasma-Hoof Stomp	Cyber-Wings	Left-hoof dominant	Copper Mane	Water-Sprays
Vector Star	Rainbow-Jet Dash	Cyber-Wings	Right-hoof dominant	Copper Mane	Water-Sprays
Curie Flash	Sonic Neigh	Gear-Bite	Right-hoof dominant	Fiber-Optic Mane	Water-Sprays
Nebula Horn	Rainbow-Jet Dash	Glow-Tail Whip	Right-hoof dominant	Fiber-Optic Mane	Magnets
Glimmer Byte	Rainbow-Jet Dash	Glow-Tail Whip	Right-hoof dominant	Fiber-Optic Mane	Water-Sprays
Cyber Onyx	Sonic Neigh	Cyber-Wings	Left-hoof dominant	Fiber-Optic Mane	Water-Sprays
Gizmo Twinkle	Plasma-Hoof Stomp	Gear-Bite	Right-hoof dominant	Chrome Mane	Water-Sprays
Sparky Lovelace	Laser-Horn Beam	Neon-Flash	Right-hoof dominant	Fiber-Optic Mane	Water-Sprays
Rusty Turing	Rainbow-Jet Dash	Neon-Flash	Right-hoof dominant	Fiber-Optic Mane	Magnets
Chrome Sparkle	Laser-Horn Beam	Spark-Missile	Left-hoof dominant	Fiber-Optic Mane	Rust-Dust
Laser Belle	Sonic Neigh	Gear-Bite	Left-hoof dominant	Fiber-Optic Mane	Rust-Dust
Ada Glitz	Plasma-Hoof Stomp	Gear-Bite	Right-hoof dominant	Copper Mane	Water-Sprays

CLUE 1 Rounding

The main control panel has a damaged screen. It rounds the electricity surge to the nearest ten to protect the wires, giving us our first hint.

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

T																T
200	2300	900	300	70	1100	1100	3700	70	9000	4300	130	900	2000	9000	130	200
									T							
3000	2000	900	3700	2900	1100	130	110	200	3700	70	1100	110	2300	70	370	

Round 169 to the nearest hundred → **T**

Round 1,642 to the nearest thousand → **S**

Round 4,302 to the nearest hundred → **D**

Round 367 to the nearest ten → **P**

Round 2,623 to the nearest thousand → **U**

Round 267 to the nearest hundred → **V**

Round 3,733 to the nearest hundred → **A**

Round 111 to the nearest ten → **W**

Round 1,074 to the nearest hundred → **L**

Round 133 to the nearest ten → **O**

Round 8,997 to the nearest thousand → **N**

Round 2,851 to the nearest hundred → **G**

Round 2,261 to the nearest hundred → **H**

Round 72 to the nearest ten → **I**

Round 856 to the nearest hundred → **E**

Scratch space:

CLUE 2 **Addition**

We count the extra batteries taken from the charging racks. Adding them together tells us how much power the rogue unit has now.

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

R																	
2468	7848	2087	7992	6565	7992	7127	7127	6049	5775	7127	6229	2393	2065	7127	5871		
			R			R											
2065	6565	2348	2468	6565	2393	2468	7614	6859	6565	6565	7127	5871					

$1428 + 1040 = \square \rightarrow \text{R}$

$1545 + 848 = \square \rightarrow \text{E}$

$3932 + 2117 = \square \rightarrow \text{F}$

$1107 + 958 = \square \rightarrow \text{S}$

$4494 + 2633 = \square \rightarrow \text{O}$

$4103 + 2126 = \square \rightarrow \text{D}$

$1979 + 4586 = \square \rightarrow \text{T}$

$3512 + 4480 = \square \rightarrow \text{H}$

$1306 + 1042 = \square \rightarrow \text{A}$

$1190 + 897 = \square \rightarrow \text{G}$

$2701 + 4913 = \square \rightarrow \text{B}$

$4654 + 3194 = \square \rightarrow \text{I}$

$2959 + 3900 = \square \rightarrow \text{U}$

$2670 + 3201 = \square \rightarrow \text{N}$

$2278 + 3497 = \square \rightarrow \text{C}$

Scratch space:

CLUE 3

Subtraction

The security gate lost power during the escape. Subtracting the remaining power from the total shows how much was drained.

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

W																			
4872	2640	3981	7956	5191	4218	5109	5191	2640	4916	4218	5191	3118	4218	3981	7956	3378	3981	3431	7956

4381	3245	3981	5191	3118	3378	7956	5191

$9438 - 4566 = \square \rightarrow \boxed{\text{W}}$

$7954 - 2845 = \square \rightarrow \boxed{\text{P}}$

$4320 - 1680 = \square \rightarrow \boxed{\text{A}}$

$7068 - 2687 = \square \rightarrow \boxed{\text{I}}$

$7949 - 2758 = \square \rightarrow \boxed{\text{R}}$

$6279 - 2061 = \square \rightarrow \boxed{\text{S}}$

$9581 - 1625 = \square \rightarrow \boxed{\text{E}}$

$7366 - 3385 = \square \rightarrow \boxed{\text{T}}$

$4986 - 1741 = \square \rightarrow \boxed{\text{N}}$

$7942 - 4824 = \square \rightarrow \boxed{\text{U}}$

$6648 - 3217 = \square \rightarrow \boxed{\text{H}}$

$7807 - 2891 = \square \rightarrow \boxed{\text{Y}}$

$8213 - 4835 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

We inspect the storage room. The thief knocked over several boxes that were arranged in equal rows, helping us find the total mess.

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

G						G	G												
11	33	8	1	15	16	11	11	33	30	80	80	108	50	25	32	30	7	80	
8	16	36	33	8	8	25													

$11 \times 1 = \square \rightarrow \boxed{\text{G}}$

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

$9 \times 12 = \square \rightarrow \boxed{\text{T}}$

$5 \times 10 = \square \rightarrow \boxed{\text{H}}$

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

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

$3 \times 11 = \square \rightarrow \boxed{\text{L}}$

$1 \times 1 = \square \rightarrow \boxed{\text{W}}$

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

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

$5 \times 6 = \square \rightarrow \boxed{\text{A}}$

$7 \times 1 = \square \rightarrow \boxed{\text{D}}$

$1 \times 8 = \square \rightarrow \boxed{\text{O}}$

$6 \times 6 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

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

A pack of robo-puppy guards found a pile of dropped bolts. We must share the bolts equally among them to see how many each puppy gets.

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:

$72 \div 9 = \boxed{}$

$72 \div 6 = \boxed{}$

$30 \div 3 = \boxed{}$

$54 \div 9 = \boxed{}$

$55 \div 11 = \boxed{}$

$8 \div 2 = \boxed{}$

$99 \div 9 = \boxed{}$

$21 \div 3 = \boxed{}$

$99 \div 11 = \boxed{}$

$14 \div 7 = \boxed{}$

$36 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain fired a laser horn beam, then triggered a neon flash.
2. The villain used a rainbow jet dash, then snapped with a gear bite.
3. The villain delivered a plasma hoof stomp, then whipped a glow tail.
4. The villain blasted a sonic neigh, then launched a spark missile.
5. The villain blasted a sonic neigh, then deployed cyber wings.
6. The villain activated an electro shield, then triggered a neon flash.
7. The villain delivered a plasma hoof stomp, then triggered a neon flash.
8. The villain fired a laser horn beam, then deployed cyber wings.
9. The villain used a rainbow jet dash, then deployed cyber wings.
10. The villain blasted a sonic neigh, then snapped with a gear bite.
11. The villain fired a laser horn beam, then launched a spark missile.
12. The villain activated an electro shield, then snapped with a gear bite.

Answer Key

The Cyber-Pasture Mystery

Culprit: Sparky Lovelace

Laser-Horn Beam · Neon-Flash · Right-hoof dominant · Fiber-Optic Mane · Water-Sprays

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 10 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE A GLOW TAIL WHIP"

Round 169 to the nearest hundred = 200 (T) · Round 1,642 to the nearest thousand = 2000 (S) · Round 4,302 to the nearest hundred = 4300 (D) · Round 367 to the nearest ten = 370 (P) · Round 2,623 to the nearest thousand = 3000 (U) · Round 267 to the nearest hundred = 300 (V) · Round 3,733 to the nearest hundred = 3700 (A) · Round 111 to the nearest ten = 110 (W) · Round 1,074 to the nearest hundred = 1100 (L) · Round 133 to the nearest ten = 130 (O) · Round 8,997 to the nearest thousand = 9000 (N) · Round 2,851 to the nearest hundred = 2900 (G) · Round 2,261 to the nearest hundred = 2300 (H) · Round 72 to the nearest ten = 70 (I) · Round 856 to the nearest hundred = 900 (E)

Clue 2 (Addition): "RIGHT HOOF CODES ON STARTER BUTTON"

$1428 + 1040 = 2468$ (R) · $1545 + 848 = 2393$ (E) · $3932 + 2117 = 6049$ (F) · $1107 + 958 = 2065$ (S) · $4494 + 2633 = 7127$ (O) · $4103 + 2126 = 6229$ (D) · $1979 + 4586 = 6565$ (T) · $3512 + 4480 = 7992$ (H) · $1306 + 1042 = 2348$ (A) · $1190 + 897 = 2087$ (G) · $2701 + 4913 = 7614$ (B) · $4654 + 3194 = 7848$ (I) · $2959 + 3900 = 6859$ (U) · $2670 + 3201 = 5871$ (N) · $2278 + 3497 = 5775$ (C)

Clue 3 (Subtraction): "WATER SPRAYS RUSTED THE INTRUDER"

$9438 - 4566 = 4872$ (W) · $7954 - 2845 = 5109$ (P) · $4320 - 1680 = 2640$ (A) · $7068 - 2687 = 4381$ (I) · $7949 - 2758 = 5191$ (R) · $6279 - 2061 = 4218$ (S) · $9581 - 1625 = 7956$ (E) · $7366 - 3385 = 3981$ (T) · $4986 - 1741 = 3245$ (N) · $7942 - 4824 = 3118$ (U) · $6648 - 3217 = 3431$ (H) · $7807 - 2891 = 4916$ (Y) · $8213 - 4835 = 3378$ (D)

Clue 4 (Multiplication facts (1-12)): "GLOWING GLASS THREADS ON FLOOR"

$11 \times 1 = 11$ (G) · $5 \times 5 = 25$ (R) · $9 \times 12 = 108$ (T) · $5 \times 10 = 50$ (H) · $8 \times 4 = 32$ (E) · $5 \times 3 = 15$ (I) · $3 \times 11 = 33$ (L) · $1 \times 1 = 1$ (W) · $4 \times 4 = 16$ (N) · $8 \times 10 = 80$ (S) · $5 \times 6 = 30$ (A) · $7 \times 1 = 7$ (D) · $1 \times 8 = 8$ (O) · $6 \times 6 = 36$ (F)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Sparky Lovelace

$72 \div 9 = 8$ · $72 \div 6 = 12$ · $30 \div 3 = 10$ · $54 \div 9 = 6$ · $55 \div 11 = 5$ · $8 \div 2 = 4$ · $99 \div 9 = 11$ · $21 \div 3 = 7$ · $99 \div 11 = 9$ · $14 \div 7 = 2$ · $36 \div 12 = 3$