



The Great Power Core Glitch

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

Detective: _____ Date: _____

A rogue robot has shut down the main energy core of Robo-City! The Head Operator needs your help to decode the signals and find the bot before the whole city runs out of battery power.

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 robot is _____

Possible suspects

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

NAME	PRIMARY TOOL	SECRET CHIP	OIL LEAK SIDE	HEAD ACCESSORY	SYSTEM VULNERABILITY
Robbie	Magnetic Clamp	Grappling Hook	Left Grip Leak	Chrome Dome	Strong Magnet
Megatron	Laser Welder	Grappling Hook	Right Grip Leak	Chrome Dome	Water Splash
Binary	Laser Welder	Ice Beam	Right Grip Leak	Copper Antenna	Strong Magnet
Rodney	Magnetic Clamp	Solar Panel	Left Grip Leak	Copper Antenna	Rust Spray
Wall-E	Magnetic Clamp	Sonar Radar	Left Grip Leak	Chrome Dome	Rust Spray
Circuit	Plasma Cutter	Sonar Radar	Left Grip Leak	Copper Antenna	Rust Spray
Pixel	Plasma Cutter	Sonar Radar	Left Grip Leak	Copper Antenna	Water Splash
Gizmo	Plasma Cutter	Grappling Hook	Right Grip Leak	Chrome Dome	Water Splash
Hal	Plasma Cutter	Ice Beam	Right Grip Leak	Copper Antenna	Rust Spray
Bender	Rocket Booster	Ice Beam	Right Grip Leak	Copper Antenna	Rust Spray
Sprocket	Plasma Cutter	Turbo Thruster	Left Grip Leak	Spiky Wires	Water Splash
Rosie	Laser Welder	Sonar Radar	Left Grip Leak	Copper Antenna	Strong Magnet
Data	Magnetic Clamp	Turbo Thruster	Left Grip Leak	Copper Antenna	Strong Magnet
Arcee	Laser Welder	Ice Beam	Right Grip Leak	Spiky Wires	Rust Spray
Rusty	Magnetic Clamp	Turbo Thruster	Left Grip Leak	Copper Antenna	Rust Spray
Clank	Laser Welder	Turbo Thruster	Right Grip Leak	Spiky Wires	Water Splash
Astro	Magnetic Clamp	Sonar Radar	Right Grip Leak	Spiky Wires	Rust Spray
Micro	Sonic Drill	Turbo Thruster	Left Grip Leak	Copper Antenna	Rust Spray
Cyber	Sonic Drill	Grappling Hook	Left Grip Leak	Copper Antenna	Rust Spray
Gearbox	Sonic Drill	Solar Panel	Right Grip Leak	Copper Antenna	Water Splash
Widget	Rocket Booster	Turbo Thruster	Left Grip Leak	Spiky Wires	Water Splash

Multiplication facts (1-12)

To start the search, we need to count the charging stations. The bays are lined up in perfect rows of chargers.

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

$2 \times 2 = \boxed{} \rightarrow \boxed{\text{T}}$

$10 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{N}}$

$3 \times 7 = \square \rightarrow \text{P}$

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

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

$12 \times 7 = \boxed{} \rightarrow \boxed{\text{L}}$

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

$5 \times 11 = \boxed{} \rightarrow \boxed{\text{H}}$

$7 \times 10 = \boxed{} \rightarrow \boxed{\text{E}}$

$11 \times 3 = \square \rightarrow \boxed{0}$

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

$$8 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$6 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$7 \times 9 =$ $\rightarrow$

$$10 \times 11 = \boxed{} \rightarrow \boxed{\text{R}}$$

Scratch space:

CLUE 2 Rounding

Our heat scanner is glitching! It only shows temperatures rounded to the nearest ten degrees.

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

L						L											
300	60	500	50	2000	8000	300	20	90	8000	80	4000	700	60	90	60		
											L						
500	2000	3000	800	20	900	70	50	40	60	300	2000	200	400				

Round 282 to the nearest hundred → **L**

Round 710 to the nearest hundred → **W**

Round 4,079 to the nearest thousand → **S**

Round 351 to the nearest hundred → **K**

Round 7,628 to the nearest thousand → **I**

Round 16 to the nearest ten → **D**

Round 48 to the nearest ten → **T**

Round 513 to the nearest hundred → **F**

Round 71 to the nearest ten → **Y**

Round 90 to the nearest ten → **R**

Round 882 to the nearest hundred → **B**

Round 82 to the nearest ten → **P**

Round 39 to the nearest ten → **H**

Round 2,831 to the nearest thousand → **U**

Round 798 to the nearest hundred → **N**

Round 2,410 to the nearest thousand → **O**

Round 63 to the nearest ten → **E**

Round 160 to the nearest hundred → **C**

Scratch space:

CLUE 3
Addition

We need to pack spare batteries. Let us add up the heavy power cells left in both storage bins.

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

R						R												
789	686	447	409	447	860	789	857	358	447	649	240	806	753	255	409	603	753	

906	726	649	649	857	726	224	255	240	806	224

$553 + 236 = \square \rightarrow \boxed{\text{R}}$

$80 + 175 = \square \rightarrow \boxed{\text{D}}$

$155 + 203 = \square \rightarrow \boxed{\text{Y}}$

$112 + 112 = \square \rightarrow \boxed{\text{N}}$

$410 + 343 = \square \rightarrow \boxed{\text{E}}$

$178 + 231 = \square \rightarrow \boxed{\text{T}}$

$473 + 253 = \square \rightarrow \boxed{\text{I}}$

$81 + 159 = \square \rightarrow \boxed{\text{O}}$

$341 + 345 = \square \rightarrow \boxed{\text{U}}$

$384 + 219 = \square \rightarrow \boxed{\text{H}}$

$196 + 453 = \square \rightarrow \boxed{\text{L}}$

$517 + 343 = \square \rightarrow \boxed{\text{P}}$

$387 + 470 = \square \rightarrow \boxed{\text{A}}$

$505 + 401 = \square \rightarrow \boxed{\text{V}}$

$144 + 303 = \square \rightarrow \boxed{\text{S}}$

$319 + 487 = \square \rightarrow \boxed{\text{W}}$

Scratch space:

CLUE 4
Subtraction

A small power drain took some energy from our blasters. Subtract the lost charge to see what remains.

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

W																		
285	177	339	569	642	778	769	138	819	589	397	778	581	825	569	804	804	177	203

138	778	468	177	778	778	138	468	397	804

$621 - 336 = \square \rightarrow \boxed{\text{W}}$

$881 - 112 = \square \rightarrow \boxed{\text{D}}$

$807 - 226 = \square \rightarrow \boxed{\text{Y}}$

$766 - 298 = \square \rightarrow \boxed{\text{T}}$

$567 - 364 = \square \rightarrow \boxed{\text{R}}$

$1148 - 329 = \square \rightarrow \boxed{\text{S}}$

$706 - 64 = \square \rightarrow \boxed{\text{U}}$

$1039 - 261 = \square \rightarrow \boxed{\text{N}}$

$194 - 56 = \square \rightarrow \boxed{\text{A}}$

$322 - 145 = \square \rightarrow \boxed{\text{E}}$

$951 - 126 = \square \rightarrow \boxed{\text{C}}$

$687 - 98 = \square \rightarrow \boxed{\text{H}}$

$746 - 349 = \square \rightarrow \boxed{\text{I}}$

$891 - 322 = \square \rightarrow \boxed{\text{O}}$

$904 - 100 = \square \rightarrow \boxed{\text{P}}$

$525 - 186 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

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

We must share our tracker chips equally among the search teams so everyone has the exact same amount.

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:

$36 \div 6 = \boxed{}$

$18 \div 6 = \boxed{}$

$18 \div 9 = \boxed{}$

$144 \div 12 = \boxed{}$

$9 \div 9 = \boxed{}$

$77 \div 7 = \boxed{}$

$20 \div 5 = \boxed{}$

$63 \div 7 = \boxed{}$

$40 \div 5 = \boxed{}$

$20 \div 2 = \boxed{}$

$42 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain flew past the high security cameras, then charged up on a solar pad.
2. The villain sliced open the backup generator, then scanned for guard bots.
3. The villain stole the giant golden battery, then speeded down the highway.
4. The villain drilled through the vault wall, then swung away on a wire rope.
5. The villain stole the giant golden battery, then charged up on a solar pad.
6. The villain drilled through the vault wall, then speeded down the highway.
7. The villain drilled through the vault wall, then charged up on a solar pad.
8. The villain sliced open the backup generator, then charged up on a solar pad.
9. The villain melted the central power core, then charged up on a solar pad.
10. The villain flew past the high security cameras, then froze the cooling pipes.
11. The villain stole the giant golden battery, then swung away on a wire rope.
12. The villain melted the central power core, then scanned for guard bots.

Answer Key

The Great Power Core Glitch

Culprit: Rodney

Magnetic Clamp · Solar Panel · Left Grip Leak · Copper Antenna · Rust Spray

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

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT HAVE A GRAPPLING HOOK"

$2 \times 2 = 4$ (T) · $10 \times 12 = 120$ (N) · $3 \times 7 = 21$ (P) · $12 \times 11 = 132$ (S) · $3 \times 1 = 3$ (K) · $12 \times 7 = 84$ (L) · $4 \times 11 = 44$ (A) · $5 \times 11 = 55$ (H) · $7 \times 10 = 70$ (E) · $11 \times 3 = 33$ (O) · $7 \times 7 = 49$ (D) · $8 \times 8 = 64$ (V) · $6 \times 12 = 72$ (G) · $7 \times 9 = 63$ (I) · $10 \times 11 = 110$ (R)

Clue 2 (Rounding): "LEFT OIL DRIPS WERE FOUND BY THE LOCK"

Round 282 to the nearest hundred = 300 (L) · Round 710 to the nearest hundred = 700 (W) · Round 4,079 to the nearest thousand = 4000 (S) · Round 351 to the nearest hundred = 400 (K) · Round 7,628 to the nearest thousand = 8000 (I) · Round 16 to the nearest ten = 20 (D) · Round 48 to the nearest ten = 50 (T) · Round 513 to the nearest hundred = 500 (F) · Round 71 to the nearest ten = 70 (Y) · Round 90 to the nearest ten = 90 (R) · Round 882 to the nearest hundred = 900 (B) · Round 82 to the nearest ten = 80 (P) · Round 39 to the nearest ten = 40 (H) · Round 2,831 to the nearest thousand = 3000 (U) · Round 798 to the nearest hundred = 800 (N) · Round 2,410 to the nearest thousand = 2000 (O) · Round 63 to the nearest ten = 60 (E) · Round 160 to the nearest hundred = 200 (C)

Clue 3 (Addition): "RUST SPRAY SLOWED THE VILLAIN DOWN"

$553 + 236 = 789$ (R) · $80 + 175 = 255$ (D) · $155 + 203 = 358$ (Y) · $112 + 112 = 224$ (N) · $410 + 343 = 753$ (E) · $178 + 231 = 409$ (T) · $473 + 253 = 726$ (I) · $81 + 159 = 240$ (O) · $341 + 345 = 686$ (U) · $384 + 219 = 603$ (H) · $196 + 453 = 649$ (L) · $517 + 343 = 860$ (P) · $387 + 470 = 857$ (A) · $505 + 401 = 906$ (V) · $144 + 303 = 447$ (S) · $319 + 487 = 806$ (W)

Clue 4 (Subtraction): "WE FOUND A SHINY COPPER ANTENNA TIP"

$621 - 336 = 285$ (W) · $881 - 112 = 769$ (D) · $807 - 226 = 581$ (Y) · $766 - 298 = 468$ (T) · $567 - 364 = 203$ (R) · $1148 - 329 = 819$ (S) · $706 - 64 = 642$ (U) · $1039 - 261 = 778$ (N) · $194 - 56 = 138$ (A) · $322 - 145 = 177$ (E) · $951 - 126 = 825$ (C) · $687 - 98 = 589$ (H) · $746 - 349 = 397$ (I) · $891 - 322 = 569$ (O) · $904 - 100 = 804$ (P) · $525 - 186 = 339$ (F)

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

$36 \div 6 = 6$ · $18 \div 6 = 3$ · $18 \div 9 = 2$ · $144 \div 12 = 12$ · $9 \div 9 = 1$ · $77 \div 7 = 11$ · $20 \div 5 = 4$ · $63 \div 7 = 9$ · $40 \div 5 = 8$ · $20 \div 2 = 10$ · $42 \div 6 = 7$