



The Runaway Bot

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

Detective: _____ Date: _____

A sneaky rogue bot has locked the Head Engineer out of the main server room! We must look at the scrap metal and oil leaks to find out which robot did it before they rewrite all our code.

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 bot 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	BACKUP TOOL	CHARGING PORT	WIRE COLOR	SYSTEM BUG
Data	Sonic Horn	Drill Nose	Left-Side Port	Blue Cables	Water Mist
Widget	Sonic Horn	Radar Dish	Left-Side Port	Blue Cables	Strong Magnets
Rusty	Magnet Hands	Tire Feet	Right-Side Port	Green Cables	Strong Magnets
Axel	Sonic Horn	Radar Dish	Right-Side Port	Green Cables	Strong Magnets
Gizmo	Laser Eyes	Tire Feet	Left-Side Port	Red Cables	Strong Magnets
Rivet	Magnet Hands	Drill Nose	Right-Side Port	Blue Cables	Strong Magnets
Clank	Sonic Horn	Tire Feet	Right-Side Port	Blue Cables	Strong Magnets
Turbo	Rocket Boots	Solar Wings	Left-Side Port	Green Cables	Water Mist
Geary	Spring Legs	Drill Nose	Right-Side Port	Green Cables	Rust Spray
Bolt	Spring Legs	Solar Wings	Left-Side Port	Red Cables	Water Mist
Cyber	Spring Legs	Spark Plug	Left-Side Port	Green Cables	Strong Magnets
Chip	Magnet Hands	Solar Wings	Left-Side Port	Green Cables	Strong Magnets
Sparky	Magnet Hands	Spark Plug	Right-Side Port	Green Cables	Rust Spray
Radar	Sonic Horn	Spark Plug	Right-Side Port	Red Cables	Strong Magnets
Glitch	Sonic Horn	Solar Wings	Right-Side Port	Blue Cables	Strong Magnets
Vector	Sonic Horn	Spark Plug	Right-Side Port	Green Cables	Strong Magnets
Byte	Spring Legs	Drill Nose	Right-Side Port	Green Cables	Strong Magnets
Circuit	Rocket Boots	Drill Nose	Right-Side Port	Green Cables	Strong Magnets
Pixel	Sonic Horn	Radar Dish	Left-Side Port	Green Cables	Water Mist
Rotor	Magnet Hands	Tire Feet	Right-Side Port	Green Cables	Water Mist
Socket	Magnet Hands	Solar Wings	Left-Side Port	Red Cables	Water Mist

CLUE 1 Addition

We need to tally up all the metal scraps left on the floor. Let's add the copper plates and the steel bolts to find our first clue.

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

T																	T
837	723	600	211	647	659	659	980	647	850	519	646	600	679	850	646	837	

742	679	600	980	679	366	980	755	241	366	659	742	575

$579 + 258 = \square \rightarrow \text{D}$	$346 + 409 = \square \rightarrow \text{R}$	$203 + 456 = \square \rightarrow \text{L}$
$220 + 299 = \square \rightarrow \text{H}$	$351 + 295 = \square \rightarrow \text{O}$	$239 + 503 = \square \rightarrow \text{U}$
$359 + 320 = \square \rightarrow \text{S}$	$143 + 68 = \square \rightarrow \text{V}$	$231 + 344 = \square \rightarrow \text{G}$
$426 + 297 = \square \rightarrow \text{H}$	$133 + 108 = \square \rightarrow \text{K}$	$365 + 485 = \square \rightarrow \text{N}$
$314 + 286 = \square \rightarrow \text{E}$	$670 + 310 = \square \rightarrow \text{A}$	$238 + 409 = \square \rightarrow \text{I}$
$175 + 191 = \square \rightarrow \text{P}$		

Scratch space:

CLUE 2 Rounding

The computer monitor is blinking with a blurry power level! Round this three-digit number to the nearest ten to clear up the screen.

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

T																				
6000	8000	30	600	8000	5000	20	2000	30	20	300	5000	200	40	70	4000	2000	2000	30	7000	
		T							T											
900	400	6000	8000	30	20	60	2000	8000	6000	200	60	7000	30							

Round 6,414 to the nearest thousand → **T**

Round 380 to the nearest hundred → **N**

Round 341 to the nearest hundred → **W**

Round 4,687 to the nearest thousand → **A**

Round 74 to the nearest ten → **L**

Round 6,895 to the nearest thousand → **D**

Round 58 to the nearest ten → **I**

Round 24 to the nearest ten → **R**

Round 1,854 to the nearest thousand → **G**

Round 579 to the nearest hundred → **C**

Round 857 to the nearest hundred → **O**

Round 196 to the nearest hundred → **S**

Round 7,972 to the nearest thousand → **H**

Round 33 to the nearest ten → **E**

Round 4,031 to the nearest thousand → **U**

Round 38 to the nearest ten → **P**

Scratch space:

CLUE 3

Subtraction

A leaky pipe is dripping oil. We had a full gallon, but some spilled out. Subtract the spilled oil to see how much we have left.

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

S													S											
522	502	197	715	331	673	671	815	673	331	683	502	522	502	197	815	633	633	683	162					
502	410	683	671	683	502	815	154	197	238	331	815	765	815	429										

$574 - 52 = \square \rightarrow \boxed{\text{S}}$

$1152 - 387 = \square \rightarrow \boxed{\text{W}}$

$518 - 321 = \square \rightarrow \boxed{\text{R}}$

$687 - 16 = \square \rightarrow \boxed{\text{M}}$

$787 - 154 = \square \rightarrow \boxed{\text{P}}$

$322 - 168 = \square \rightarrow \boxed{\text{L}}$

$1005 - 290 = \square \rightarrow \boxed{\text{O}}$

$423 - 261 = \square \rightarrow \boxed{\text{D}}$

$263 - 25 = \square \rightarrow \boxed{\text{U}}$

$1120 - 305 = \square \rightarrow \boxed{\text{A}}$

$637 - 208 = \square \rightarrow \boxed{\text{Y}}$

$638 - 136 = \square \rightarrow \boxed{\text{T}}$

$1035 - 352 = \square \rightarrow \boxed{\text{E}}$

$550 - 219 = \square \rightarrow \boxed{\text{N}}$

$479 - 69 = \square \rightarrow \boxed{\text{H}}$

$738 - 65 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The battery packs are stacked neatly in rows on the shelf. Multiply the rows by the packs in each row to see how much energy we can use.

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

G																		
22	33	120	120	20	72	100	33	120	100	20	42	96	63	4	45	100	81	20

72	4	42	63	120	80	45	49	120	16	100	20	132

$2 \times 11 = \square \rightarrow \text{G}$

$11 \times 12 = \square \rightarrow \text{D}$

$9 \times 7 = \square \rightarrow \text{L}$

$10 \times 10 = \square \rightarrow \text{I}$

$9 \times 9 = \square \rightarrow \text{O}$

$3 \times 11 = \square \rightarrow \text{R}$

$7 \times 7 = \square \rightarrow \text{B}$

$8 \times 9 = \square \rightarrow \text{W}$

$8 \times 12 = \square \rightarrow \text{U}$

$9 \times 5 = \square \rightarrow \text{T}$

$8 \times 10 = \square \rightarrow \text{F}$

$7 \times 6 = \square \rightarrow \text{S}$

$8 \times 2 = \square \rightarrow \text{H}$

$2 \times 2 = \square \rightarrow \text{A}$

$2 \times 10 = \square \rightarrow \text{N}$

$12 \times 10 = \square \rightarrow \text{E}$

Scratch space:

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

We found a box of spare gears. Share the gears equally among our friendly repair bots to get the final clue decoded.

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:

$22 \div 2 = \boxed{}$

$81 \div 9 = \boxed{}$

$108 \div 9 = \boxed{}$

$90 \div 9 = \boxed{}$

$10 \div 10 = \boxed{}$

$44 \div 11 = \boxed{}$

$64 \div 8 = \boxed{}$

$35 \div 5 = \boxed{}$

$9 \div 3 = \boxed{}$

$50 \div 10 = \boxed{}$

$8 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted into the air on fiery thrusters, then rolled down the hallway on rubber wheels.
2. The villain shattered the glass with a loud screech, then lit up the dark room with glowing sparks.
3. The villain shined a bright laser beam at the camera, then rolled down the hallway on rubber wheels.
4. The villain blasted into the air on fiery thrusters, then tracked the guards using a spinny radar.
5. The villain bounced right over the high security wall, then rolled down the hallway on rubber wheels.
6. The villain grabbed the keycard with a magnetic pull, then rolled down the hallway on rubber wheels.
7. The villain bounced right over the high security wall, then glided away using shiny solar panels.
8. The villain bounced right over the high security wall, then lit up the dark room with glowing sparks.
9. The villain blasted into the air on fiery thrusters, then bored a hole through the door with steel drills.
10. The villain shined a bright laser beam at the camera, then glided away using shiny solar panels.
11. The villain bounced right over the high security wall, then bored a hole through the door with steel drills.
12. The villain shattered the glass with a loud screech, then tracked the guards using a spinny radar.

Answer Key

The Runaway Bot

Culprit: Rusty

Magnet Hands · Tire Feet · Right-Side Port · Green Cables · Strong Magnets

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A SPARK PLUG"

$579 + 258 = 837$ (T) · $346 + 409 = 755$ (R) · $203 + 456 = 659$ (L) · $220 + 299 = 519$ (D) · $351 + 295 = 646$ (O) · $239 + 503 = 742$ (U) · $359 + 320 = 679$ (S) · $143 + 68 = 211$ (V) · $231 + 344 = 575$ (G) · $426 + 297 = 723$ (H) · $133 + 108 = 241$ (K) · $365 + 485 = 850$ (N) · $314 + 286 = 600$ (E) · $670 + 310 = 980$ (A) · $238 + 409 = 647$ (I) · $175 + 191 = 366$ (P)

Clue 2 (Rounding): "THE CHARGER WAS PLUGGED ON THE RIGHT SIDE"

Round 6,414 to the nearest thousand = 6000 (T) · Round 380 to the nearest hundred = 400 (N) · Round 341 to the nearest hundred = 300 (W) · Round 4,687 to the nearest thousand = 5000 (A) · Round 74 to the nearest ten = 70 (L) · Round 6,895 to the nearest thousand = 7000 (D) · Round 58 to the nearest ten = 60 (I) · Round 24 to the nearest ten = 20 (R) · Round 1,854 to the nearest thousand = 2000 (G) · Round 579 to the nearest hundred = 600 (C) · Round 857 to the nearest hundred = 900 (O) · Round 196 to the nearest hundred = 200 (S) · Round 7,972 to the nearest thousand = 8000 (H) · Round 33 to the nearest ten = 30 (E) · Round 4,031 to the nearest thousand = 4000 (U) · Round 38 to the nearest ten = 40 (P)

Clue 3 (Subtraction): "STRONG MAGNETS TRAPPED THE METAL RUNAWAY"

$574 - 52 = 522$ (S) · $1152 - 387 = 765$ (W) · $518 - 321 = 197$ (R) · $687 - 16 = 671$ (M) · $787 - 154 = 633$ (P) · $322 - 168 = 154$ (L) · $1005 - 290 = 715$ (O) · $423 - 261 = 162$ (D) · $263 - 25 = 238$ (U) · $1120 - 305 = 815$ (A) · $637 - 208 = 429$ (Y) · $638 - 136 = 502$ (T) · $1035 - 352 = 683$ (E) · $550 - 219 = 331$ (N) · $479 - 69 = 410$ (H) · $738 - 65 = 673$ (G)

Clue 4 (Multiplication facts (1-12)): "GREEN WIRE INSULATION WAS LEFT BEHIND"

$2 \times 11 = 22$ (G) · $11 \times 12 = 132$ (D) · $9 \times 7 = 63$ (L) · $10 \times 10 = 100$ (I) · $9 \times 9 = 81$ (O) · $3 \times 11 = 33$ (R) · $7 \times 7 = 49$ (B) · $8 \times 9 = 72$ (W) · $8 \times 12 = 96$ (U) · $9 \times 5 = 45$ (T) · $8 \times 10 = 80$ (F) · $7 \times 6 = 42$ (S) · $8 \times 2 = 16$ (H) · $2 \times 2 = 4$ (A) · $2 \times 10 = 20$ (N) · $12 \times 10 = 120$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Rusty

$22 \div 2 = 11$ · $81 \div 9 = 9$ · $108 \div 9 = 12$ · $90 \div 9 = 10$ · $10 \div 10 = 1$ · $44 \div 11 = 4$ · $64 \div 8 = 8$ · $35 \div 5 = 7$ · $9 \div 3 = 3$ · $50 \div 10 = 5$ · $8 \div 4 = 2$