



The Mystery of the Mischievous Bot

Grade 1 math · Addition, Subtraction, Skip counting, Place value, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

A rogue bot is making a mess at Gear Creek Robot Factory! The Chief Engineer needs your help to find out which robot went haywire. Collect clues to solve the mystery!

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	GADGET TOOL	POWER SOURCE	DOMINANT HAND	WIRE COLOR	RESET TRICK
Bolt	Oil Sprayer	Radar Dish	Left Handed	Blue Wires	Bright Flash
Rivets	Oil Sprayer	Silver Antenna	Right Handed	Blue Wires	Bright Flash
Flux	Oil Sprayer	Bronze Battery	Left Handed	Green Wires	Bright Flash
Sprocket	Super Magnet	Radar Dish	Right Handed	Green Wires	Loud Clap
Widget	Oil Sprayer	Bronze Battery	Right Handed	Green Wires	Bright Flash
Data	Rocket Boots	Silver Antenna	Right Handed	Green Wires	Loud Clap
Chip	Sonic Whistle	Radar Dish	Right Handed	Blue Wires	Bright Flash
Axle	Oil Sprayer	Micro Chip	Right Handed	Green Wires	Loud Clap
Volt	Super Magnet	Radar Dish	Left Handed	Red Wires	Water Splash
Sparky	Oil Sprayer	Micro Chip	Right Handed	Red Wires	Water Splash
Rust-E	Sonic Whistle	Micro Chip	Right Handed	Blue Wires	Water Splash
Gears	Super Magnet	Bronze Battery	Left Handed	Red Wires	Water Splash
Radar	Laser Torch	Micro Chip	Right Handed	Blue Wires	Bright Flash
Circuit	Super Magnet	Solar Panel	Right Handed	Red Wires	Loud Clap
Copper	Super Magnet	Bronze Battery	Left Handed	Green Wires	Loud Clap
Zinc	Laser Torch	Micro Chip	Right Handed	Green Wires	Loud Clap
Clinker	Rocket Boots	Bronze Battery	Right Handed	Green Wires	Loud Clap
Echo	Super Magnet	Micro Chip	Left Handed	Green Wires	Loud Clap
Piston	Laser Torch	Micro Chip	Right Handed	Red Wires	Bright Flash
Tinker	Sonic Whistle	Radar Dish	Right Handed	Green Wires	Water Splash
Beep	Super Magnet	Silver Antenna	Right Handed	Blue Wires	Bright Flash

CLUE 1 Addition

Detective Bot adds up the lost gears found near the workbench.

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

T																T	
18	2	3	13	17	5	5	20	17	12	7	14	3	9	12	14	18	
												T	T				
2	20	13	3	20	11	8	14	12	19	3	11	20	18	18	3	8	15

$9 + 9 = \square \rightarrow$ T	$1 + 2 = \square \rightarrow$ E	$5 + 6 = \square \rightarrow$ B	$3 + 4 = \square \rightarrow$ D
$7 + 6 = \square \rightarrow$ V	$3 + 6 = \square \rightarrow$ S	$2 + 6 = \square \rightarrow$ R	$12 + 5 = \square \rightarrow$ I
$1 + 1 = \square \rightarrow$ H	$4 + 1 = \square \rightarrow$ L	$10 + 4 = \square \rightarrow$ O	$7 + 8 = \square \rightarrow$ Y
$13 + 7 = \square \rightarrow$ A	$9 + 10 = \square \rightarrow$ Z	$6 + 6 = \square \rightarrow$ N	

Scratch space:

CLUE 2

Subtraction

Detective Bot takes away the broken bolts from the total count.

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

T																	
9	1	16	7	4	9	5	3	8	11	8	10	13	2	10	9	8	

18	10	2	1	9	1	3	13	17

$14 - 5 = \square \rightarrow \boxed{\text{T}}$

$19 - 3 = \square \rightarrow \boxed{\text{E}}$

$14 - 4 = \square \rightarrow \boxed{\text{I}}$

$11 - 3 = \square \rightarrow \boxed{\text{S}}$

$19 - 6 = \square \rightarrow \boxed{\text{N}}$

$12 - 1 = \square \rightarrow \boxed{\text{U}}$

$9 - 5 = \square \rightarrow \boxed{\text{O}}$

$6 - 1 = \square \rightarrow \boxed{\text{W}}$

$3 - 2 = \square \rightarrow \boxed{\text{H}}$

$20 - 2 = \square \rightarrow \boxed{\text{R}}$

$10 - 3 = \square \rightarrow \boxed{\text{B}}$

$20 - 3 = \square \rightarrow \boxed{\text{D}}$

$5 - 3 = \square \rightarrow \boxed{\text{G}}$

$10 - 7 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 3 Skip counting

Detective Bot counts the spare batteries in groups of five.

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

A							A									
16	24	65	45	15	42	24	16	50	33	27	65	50	33	27	40	21

10	65	130	45	21	26	65	27

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **G**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **S**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **C**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **L**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **U**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **B**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 → **P**

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **D**

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **R**

Scratch space:

CLUE 4

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

11 80 85 85 61 35 90 80 85 51 35 85 80 85 51 61 90 83 83 85 42 20 46 46 17 85 76 85 61 30 17

What number has 1 ten and 1 one? → **G**

What number has 8 tens and 3 ones? → **P**

What number has 6 tens and 1 one? → **N**

What number has 9 tens and 0 ones? →

1

What number has 4 tens and 6 ones? → **T**

What number has 3 tens and 0 ones? → **C**

What number has 5 tens and 1 one? → **S**

What number has 8 tens and 0 ones? → **R**

What number has 2 tens and 0 ones? → **A**

What number has 8 tens and 5 ones? → **E**

What number has 1 ten and 7 ones? → **H**

What number has 7 tens and 6 ones? → **B**

What number has 4 tens and 2 ones? → **D**

What number has 3 tens and 5 ones? → **W**

Scratch space:

CLUE 5**Missing addends - the last clue**

Detective Bot finds out how many extra wires are needed to fix the power box.

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:

$7 + \underline{\quad} = 15$

$3 + \underline{\quad} = 13$

$2 + \underline{\quad} = 7$

$6 + \underline{\quad} = 8$

$6 + \underline{\quad} = 18$

$8 + \underline{\quad} = 12$

$3 + \underline{\quad} = 12$

$7 + \underline{\quad} = 10$

$7 + \underline{\quad} = 14$

$8 + \underline{\quad} = 14$

$5 + \underline{\quad} = 16$

Step 2 - cross out the sentence with each answer:

1. The villain blasted up to the roof, then sent out a radio signal.
2. The villain blasted up to the roof, then drained power from a battery.
3. The villain blasted up to the roof, then charged up in the bright sun.
4. The villain pulled all the loose gears, then drained power from a battery.
5. The villain pulled all the loose gears, then scanned the room for scrap metal.
6. The villain zapped the main control box, then charged up in the bright sun.
7. The villain blasted up to the roof, then saved the glitchy code.
8. The villain zapped the main control box, then saved the glitchy code.
9. The villain sprayed slippery oil around, then sent out a radio signal.
10. The villain sprayed slippery oil around, then saved the glitchy code.
11. The villain pulled all the loose gears, then sent out a radio signal.
12. The villain sprayed slippery oil around, then charged up in the bright sun.

Answer Key

The Mystery of the Mischievous Bot

Culprit: Data

Rocket Boots · Silver Antenna · Right Handed · Green Wires · Loud Clap

Trail: Start 21 → Clue 1 16 → Clue 2 13 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE A BRONZE BATTERY"

$9 + 9 = 18$ (T) · $1 + 2 = 3$ (E) · $5 + 6 = 11$ (B) · $3 + 4 = 7$ (D) · $7 + 6 = 13$ (V) · $3 + 6 = 9$ (S) · $2 + 6 = 8$ (R) · $12 + 5 = 17$ (I) · $1 + 1 = 2$ (H) · $4 + 1 = 5$ (L) · $10 + 4 = 14$ (O) · $7 + 8 = 15$ (Y) · $13 + 7 = 20$ (A) · $9 + 10 = 19$ (Z) · $6 + 6 = 12$ (N)

Clue 2 (Subtraction): "THE BOT WAS USING ITS RIGHT HAND"

$14 - 5 = 9$ (T) · $19 - 3 = 16$ (E) · $14 - 4 = 10$ (I) · $11 - 3 = 8$ (S) · $19 - 6 = 13$ (N) · $12 - 1 = 11$ (U) · $9 - 5 = 4$ (O) · $6 - 1 = 5$ (W) · $3 - 2 = 1$ (H) · $20 - 2 = 18$ (R) · $10 - 3 = 7$ (B) · $20 - 3 = 17$ (D) · $5 - 3 = 2$ (G) · $10 - 7 = 3$ (A)

Clue 3 (Skip counting): "A LOUD CLAP STOPS THE ROGUE BOT"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (P) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (R)

Clue 4 (Place value): "GREEN WIRES WERE SNIPPED AT THE BENCH"

What number has 1 ten and 1 one? = 11 (G) · What number has 8 tens and 3 ones? = 83 (P) · What number has 6 tens and 1 one? = 61 (N) · What number has 9 tens and 0 ones? = 90 (I) · What number has 4 tens and 6 ones? = 46 (T) · What number has 3 tens and 0 ones? = 30 (C) · What number has 5 tens and 1 one? = 51 (S) · What number has 8 tens and 0 ones? = 80 (R) · What number has 2 tens and 0 ones? = 20 (A) · What number has 8 tens and 5 ones? = 85 (E) · What number has 1 ten and 7 ones? = 17 (H) · What number has 7 tens and 6 ones? = 76 (B) · What number has 4 tens and 2 ones? = 42 (D) · What number has 3 tens and 5 ones? = 35 (W)

Clue 5 (Missing addends): surviving statement is box 1 → Data

$7 + \underline{\quad} = 15 = 8$ · $3 + \underline{\quad} = 13 = 10$ · $2 + \underline{\quad} = 7 = 5$ · $6 + \underline{\quad} = 8 = 2$ · $6 + \underline{\quad} = 18 = 12$ · $8 + \underline{\quad} = 12 = 4$ · $3 + \underline{\quad} = 12 = 9$ · $7 + \underline{\quad} = 10 = 3$ · $7 + \underline{\quad} = 14 = 7$ · $8 + \underline{\quad} = 14 = 6$ · $5 + \underline{\quad} = 16 = 11$