The Mystery of the Golden E-Scooter

Grade 1 math · Addition, Subtraction, Skip counting, Place value, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone hacked the charging station at Volt City Park and zoomed off with the prototype Golden E-Scooter. Use your detective skills to decode the tracks and find out who snatched the ride.

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 Scooter Rogue is _____

Possible suspects

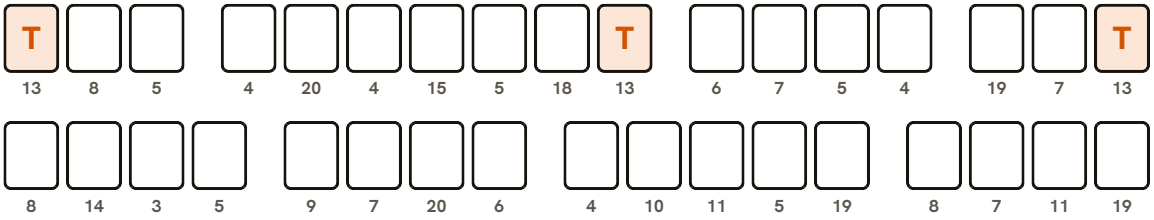
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	DECK TECH	HANDLEBAR GADGET	RIDING STANCE	HAIR STYLE	MECHANICAL GLITCH
Owen Glide	Hydro Brake Deck	Loud Siren Horn	Left Foot Forward	Spiky Blue Hair	Squeaky Disc Brake
Eli Cable	Solar Battery Deck	Digital Speedo	Right Foot Forward	Curly Red Hair	Loose Chain Noise
Jax Sparks	Dual Motor Deck	Digital Speedo	Right Foot Forward	Spiky Blue Hair	Loose Chain Noise
Skye Fender	Hydro Brake Deck	Loud Siren Horn	Left Foot Forward	Curly Red Hair	Loose Chain Noise
Milo Gear	Neon Wheel Deck	Digital Speedo	Left Foot Forward	Curly Red Hair	Loose Chain Noise
Leo Pedal	Dual Motor Deck	Loud Siren Horn	Left Foot Forward	Spiky Blue Hair	Loose Chain Noise
Ivy Charger	Neon Wheel Deck	Cargo Storage Box	Right Foot Forward	Long Neon Braids	Loose Chain Noise
Zoe Volt	Dual Motor Deck	Digital Speedo	Right Foot Forward	Curly Red Hair	Squeaky Disc Brake
Ella Amp	Dual Motor Deck	GPS Map Screen	Right Foot Forward	Curly Red Hair	Low Battery Beep
Jade Pulse	Dual Motor Deck	GPS Map Screen	Left Foot Forward	Long Neon Braids	Low Battery Beep
Nora Shift	Solar Battery Deck	Laser Path Light	Right Foot Forward	Curly Red Hair	Squeaky Disc Brake
Liam Watt	Neon Wheel Deck	GPS Map Screen	Left Foot Forward	Spiky Blue Hair	Loose Chain Noise
Noah Circuit	Neon Wheel Deck	Loud Siren Horn	Left Foot Forward	Long Neon Braids	Loose Chain Noise
Aria Chain	Fat Tire Deck	Cargo Storage Box	Left Foot Forward	Spiky Blue Hair	Low Battery Beep
Tess Motor	Hydro Brake Deck	Loud Siren Horn	Left Foot Forward	Curly Red Hair	Squeaky Disc Brake
Chloe Hub	Hydro Brake Deck	Cargo Storage Box	Left Foot Forward	Curly Red Hair	Loose Chain Noise
Mia Sprocket	Fat Tire Deck	GPS Map Screen	Left Foot Forward	Spiky Blue Hair	Loose Chain Noise
Kai Tread	Solar Battery Deck	Digital Speedo	Left Foot Forward	Curly Red Hair	Loose Chain Noise
Caleb Drift	Hydro Brake Deck	Cargo Storage Box	Left Foot Forward	Long Neon Braids	Loose Chain Noise
Finn Rim	Neon Wheel Deck	Laser Path Light	Left Foot Forward	Curly Red Hair	Loose Chain Noise
Ruby Turbo	Fat Tire Deck	Laser Path Light	Left Foot Forward	Curly Red Hair	Squeaky Disc Brake

CLUE 1 Addition

You combine the spare battery packs in the workshop to power up your clue scanner.

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



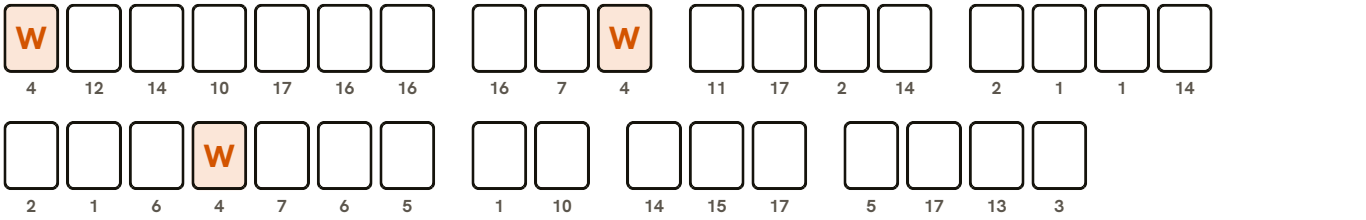
5 + 8 = ☐ → T	10 + 5 = ☐ → P	6 + 2 = ☐ → H	6 + 4 = ☐ → I
3 + 2 = ☐ → E	5 + 14 = ☐ → N	6 + 14 = ☐ → U	
9 + 9 = ☐ → C	2 + 1 = ☐ → V	6 + 5 = ☐ → R	3 + 4 = ☐ → O
9 + 5 = ☐ → A	4 + 2 = ☐ → D	1 + 3 = ☐ → S	2 + 7 = ☐ → L

Scratch space:

CLUE 2 Subtraction

You count the missing helmets on the display rack to see how many were taken.

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



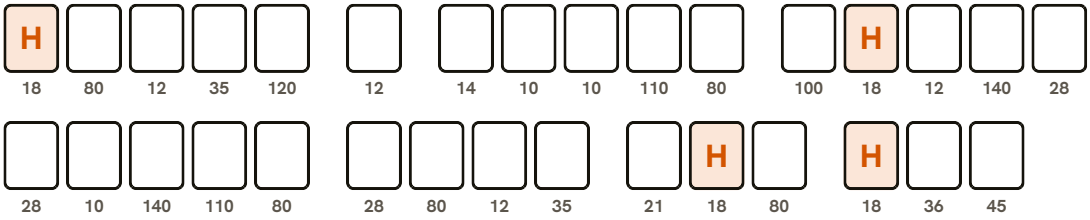
11 - 7 = ☐ → W	13 - 7 = ☐ → R	6 - 5 = ☐ → O	18 - 3 = ☐ → H
17 - 3 = ☐ → T	8 - 5 = ☐ → K	7 - 2 = ☐ → D	13 - 1 = ☐ → I
18 - 1 = ☐ → E	18 - 7 = ☐ → L	14 - 4 = ☐ → N	
19 - 6 = ☐ → C	17 - 1 = ☐ → S	4 - 2 = ☐ → F	16 - 9 = ☐ → A

Scratch space:

CLUE 3 Skip counting

You count the scooter wheels stacked in rows of two along the garage wall.

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



Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 ☐ → H

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → N

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 ☐ → R

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 ☐ → D

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → I

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 ☐ → B

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 ☐ → E

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → C

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, ___, 14, 16 ☐ → A

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 ☐ → T

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → O

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → U

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 ☐ → L

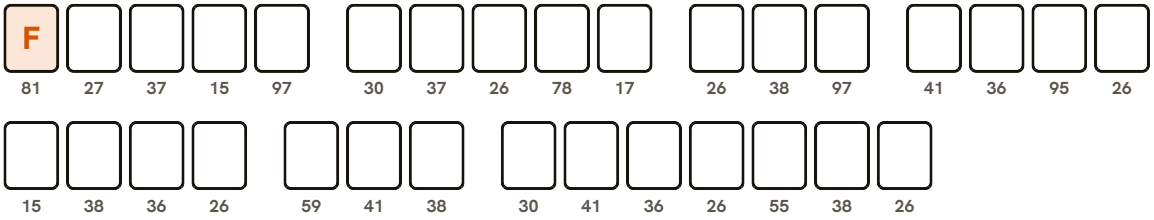
Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → S

Scratch space:

CLUE 4 Place value

You read the digital numbers on a dropped speedometer screen to get a clue code.

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



What number has 8 tens and 1 one? ☐ → F

What number has 7 tens and 8 ones? ☐ → L

What number has 1 ten and 5 ones? ☐ → N

What number has 2 tens and 7 ones? ☐ → O

What number has 3 tens and 8 ones? ☐ → E

What number has 5 tens and 5 ones? ☐ → G

What number has 3 tens and 6 ones? ☐ → A

What number has 9 tens and 7 ones? ☐ → D

What number has 5 tens and 9 ones? ☐ → T

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

What number has 1 ten and 7 ones? ☐ → Y

What number has 2 tens and 6 ones? ☐ → R

What number has 4 tens and 1 one? ☐ → H

What number has 3 tens and 7 ones? ☐ → U

What number has 9 tens and 5 ones? ☐ → I

Scratch space:

CLUE 5 Missing addends - the last clue

You calculate how many extra charging cables are needed to fill the rack.

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:

5 + ___ = 12 ☐	10 + ___ = 12 ☐	3 + ___ = 6 ☐	2 + ___ = 8 ☐
6 + ___ = 14 ☐	3 + ___ = 8 ☐	8 + ___ = 9 ☐	4 + ___ = 14 ☐
2 + ___ = 14 ☐	7 + ___ = 16 ☐	2 + ___ = 6 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain rolled on the fat tire deck, then tapped the gps map screen.
2. The villain charged the solar battery deck, then checked the digital speedo.
3. The villain clamped the hydro brake deck, then latched a cargo storage box.
4. The villain charged the solar battery deck, then switched on a laser path light.
5. The villain revved up the dual motor deck, then honked with a loud siren horn.
6. The villain lit up the neon wheel deck, then tapped the gps map screen.
7. The villain lit up the neon wheel deck, then switched on a laser path light.
8. The villain revved up the dual motor deck, then tapped the gps map screen.
9. The villain revved up the dual motor deck, then switched on a laser path light.
10. The villain rolled on the fat tire deck, then honked with a loud siren horn.
11. The villain lit up the neon wheel deck, then checked the digital speedo.
12. The villain charged the solar battery deck, then latched a cargo storage box.

TEACHER / PARENT

Answer Key

The Mystery of the Golden E-Scooter

Culprit: Milo Gear

Neon Wheel Deck · Digital Speedo · Left Foot Forward · Curly Red Hair · Loose Chain Noise

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT HAVE LOUD SIREN HORN"

5 + 8 = 13 (T) · 10 + 5 = 15 (P) · 6 + 2 = 8 (H) · 6 + 4 = 10 (I) · 3 + 2 = 5 (E) · 5 + 14 = 19 (N) · 6 + 14 = 20 (U) · 9 + 9 = 18 (C) · 2 + 1 = 3 (V) · 6 + 5 = 11 (R) · 3 + 4 = 7 (O) · 9 + 5 = 14 (A) · 4 + 2 = 6 (D) · 1 + 3 = 4 (S) · 2 + 7 = 9 (L)

Clue 2 (Subtraction): "WITNESS SAW LEFT FOOT FORWARD ON THE DECK"

11 - 7 = 4 (W) · 13 - 7 = 6 (R) · 6 - 5 = 1 (O) · 18 - 3 = 15 (H) · 17 - 3 = 14 (T) · 8 - 5 = 3 (K) · 7 - 2 = 5 (D) · 13 - 1 = 12 (I) · 18 - 1 = 17 (E) · 18 - 7 = 11 (L) · 14 - 4 = 10 (N) · 19 - 6 = 13 (C) · 17 - 1 = 16 (S) · 4 - 2 = 2 (F) · 16 - 9 = 7 (A)

Clue 3 (Skip counting): "HEARD A LOOSE CHAIN NOISE NEAR THE HUB"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 = 18 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, ___, 14, 16 = 12 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 = 21 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 = 14 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (S)

Clue 4 (Place value): "FOUND CURLY RED HAIR NEAR THE CHARGER"

What number has 8 tens and 1 one? = 81 (F) · What number has 7 tens and 8 ones? = 78 (L) · What number has 1 ten and 5 ones? = 15 (N) · What number has 2 tens and 7 ones? = 27 (O) · What number has 3 tens and 8 ones? = 38 (E) · What number has 5 tens and 5 ones? = 55 (G) · What number has 3 tens and 6 ones? = 36 (A) · What number has 9 tens and 7 ones? = 97 (D) · What number has 5 tens and 9 ones? = 59 (T) · What number has 3 tens and 0 ones? = 30 (C) · What number has 1 ten and 7 ones? = 17 (Y) · What number has 2 tens and 6 ones? = 26 (R) · What number has 4 tens and 1 one? = 41 (H) · What number has 3 tens and 7 ones? = 37 (U) · What number has 9 tens and 5 ones? = 95 (I)

Clue 5 (Missing addends): surviving statement is box 11 → Milo Gear

5 + ___ = 12 = 7 · 10 + ___ = 12 = 2 · 3 + ___ = 6 = 3 · 2 + ___ = 8 = 6 · 6 + ___ = 14 = 8 · 3 + ___ = 8 = 5 · 8 + ___ = 9 = 1 · 4 + ___ = 14 = 10 · 2 + ___ = 14 = 12 · 7 + ___ = 16 = 9 · 2 + ___ = 6 = 4