The Sabotage at Outpost 67

Grade 5 math · Addition, Multiplication, Rounding, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Someone tampered with the championship trophy engine at Station 67 right before the finals! Detective, analyze the track telemetry and squad logs to unmask the culprit.

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 Saboteur is _____

Possible suspects

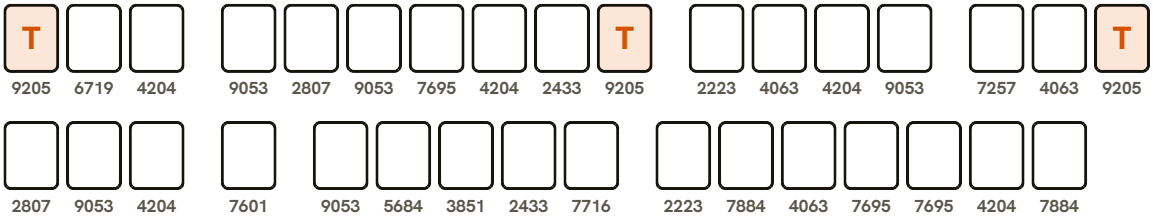
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIAL ABILITY	GADGET	STEERING STYLE	HELMET STYLE	TRACK HAZARD
Dash Dalton	Plasma Glider	Grapple Hook	Right Handed	Neon Blue Helmet	Foam Bomb
Maya Motion	Plasma Glider	Laser Grid	Right Handed	Chrome Silver Helmet	Foam Bomb
Ryder Rush	Quantum Warp	Slick Dropper	Right Handed	Chrome Silver Helmet	Foam Bomb
Racer Rex	Plasma Glider	Slick Dropper	Right Handed	Chrome Silver Helmet	Magnet Trap
Jax Jaeger	Plasma Glider	Grapple Hook	Right Handed	Chrome Silver Helmet	Foam Bomb
Tara Turbo	Ion Shield	Laser Grid	Right Handed	Chrome Silver Helmet	Magnet Trap
Sienna Speed	Ion Shield	Sonic Horn	Left Handed	Chrome Silver Helmet	Magnet Trap
Zane Zoom	Nitro Drift	Laser Grid	Right Handed	Chrome Silver Helmet	Foam Bomb
Orion Oat	Turbo Boost	Grapple Hook	Left Handed	Chrome Silver Helmet	Bubble Net
Axel Vance	Quantum Warp	Slick Dropper	Left Handed	Solar Gold Helmet	Bubble Net
Cora Comet	Ion Shield	Sonic Horn	Right Handed	Chrome Silver Helmet	Foam Bomb
Leo Lightning	Ion Shield	Grapple Hook	Right Handed	Chrome Silver Helmet	Magnet Trap
Toby Torque	Nitro Drift	Sonic Horn	Right Handed	Solar Gold Helmet	Bubble Net
Val Velocity	Nitro Drift	Grapple Hook	Right Handed	Solar Gold Helmet	Magnet Trap
Piper Pulse	Ion Shield	Sonic Horn	Left Handed	Chrome Silver Helmet	Foam Bomb
Zoe Zipping	Ion Shield	Laser Grid	Left Handed	Chrome Silver Helmet	Bubble Net
Blaze Bennet	Turbo Boost	Laser Grid	Right Handed	Neon Blue Helmet	Foam Bomb
Lexi Launch	Ion Shield	EMP Cannon	Left Handed	Chrome Silver Helmet	Bubble Net
Nova Cruz	Turbo Boost	Laser Grid	Right Handed	Chrome Silver Helmet	Bubble Net
Kira Knight	Quantum Warp	Grapple Hook	Left Handed	Neon Blue Helmet	Magnet Trap
Milo Mach	Nitro Drift	Laser Grid	Right Handed	Solar Gold Helmet	Magnet Trap

CLUE 1 Addition

You tally the combined repair costs across all pit garages at Station 67 to unlock the first clue.

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



5475 + 3730 = ☐ → T	1163 + 1270 = ☐ → C	1339 + 884 = ☐ → D
1268 + 1539 = ☐ → U	1379 + 2684 = ☐ → O	3336 + 2348 = ☐ → L
4570 + 2149 = ☐ → H	5916 + 3137 = ☐ → S	2824 + 1380 = ☐ → E
3306 + 3951 = ☐ → N	1305 + 2546 = ☐ → I	5232 + 2463 = ☐ → P
4753 + 3131 = ☐ → R	4219 + 3382 = ☐ → A	5105 + 2611 = ☐ → K

Scratch space:

CLUE 2

Multiplication facts (1-12)

You count the rows of spare hover tires stacked in the pit lane standard crates.

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

T								T														
40	11	121	35	2	44	3	40	121	5	15	110	2	35	36	15	3	88	121	66			

T								T						
40	3	44	121	15	21	60	11	40	11	2	8	66	121	66

8 × 5 = ☐ → T

11 × 10 = ☐ → W

11 × 11 = ☐ → E

11 × 4 = ☐ → B

5 × 1 = ☐ → U

3 × 1 = ☐ → O

1 × 2 = ☐ → A

1 × 11 = ☐ → H

8 × 11 = ☐ → V

7 × 5 = ☐ → S

4 × 9 = ☐ → P

5 × 12 = ☐ → G

4 × 2 = ☐ → N

7 × 3 = ☐ → I

11 × 6 = ☐ → D

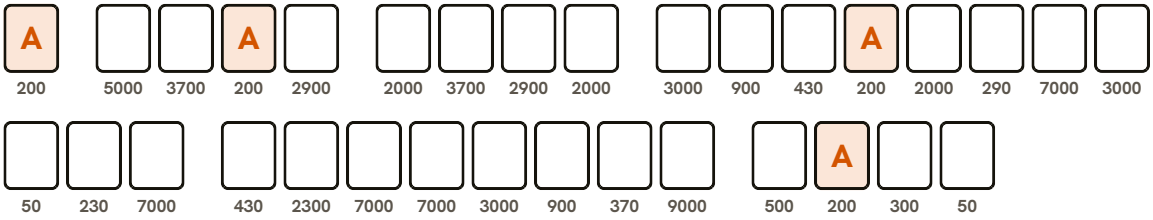
5 × 3 = ☐ → R

Scratch space:

CLUE 3 Rounding

The track radar screen only shows rounded speed measurements for safety clearance.

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



Round 168 to the nearest hundred ☐ → A

Round 48 to the nearest ten ☐ → T

Round 370 to the nearest ten ☐ → N

Round 300 to the nearest hundred ☐ → R

Round 5,150 to the nearest thousand ☐ → F

Round 9,237 to the nearest thousand ☐ → G

Round 1,764 to the nearest thousand ☐ → B

Round 232 to the nearest ten ☐ → H

Round 918 to the nearest hundred ☐ → I

Round 3,077 to the nearest thousand ☐ → D

Round 7,408 to the nearest thousand ☐ → E

Round 3,740 to the nearest hundred ☐ → O

Round 2,299 to the nearest hundred ☐ → P

Round 533 to the nearest hundred ☐ → K

Round 2,863 to the nearest hundred ☐ → M

Round 431 to the nearest ten ☐ → S

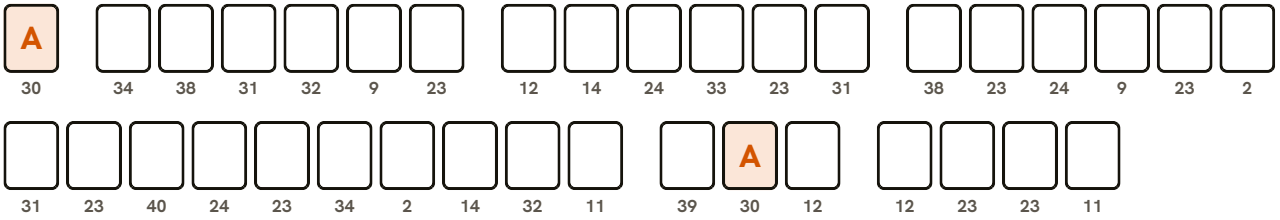
Round 293 to the nearest ten ☐ → L

Scratch space:

CLUE 4 Fractions of a number

You calculate the portion of racing fuel canisters stored safely in the supply vault.

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



5/8 of 48 = ☐ → A	3/8 of 64 = ☐ → L	1/3 of 69 = ☐ → E
2/6 of 42 = ☐ → I	5/10 of 76 = ☐ → H	1/2 of 18 = ☐ → M
2/5 of 85 = ☐ → C	2/6 of 93 = ☐ → R	3/6 of 22 = ☐ → N
1/10 of 20 = ☐ → T	2/8 of 156 = ☐ → W	3/10 of 40 = ☐ → S
1/6 of 192 = ☐ → O	4/6 of 60 = ☐ → F	3/4 of 44 = ☐ → V

Scratch space:

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

> You divide the total lap telemetry data packets evenly among the analysis computers.

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:

24 ÷ 6 = ☐	70 ÷ 10 = ☐	48 ÷ 8 = ☐	72 ÷ 8 = ☐	55 ÷ 11 = ☐
16 ÷ 2 = ☐	84 ÷ 7 = ☐	20 ÷ 2 = ☐	22 ÷ 2 = ☐	18 ÷ 9 = ☐
21 ÷ 7 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain raised the ion shield, then blasted the sonic horn.
2. The villain executed a nitro drift, then dropped a slick trap.
3. The villain deployed the plasma glider, then blasted the sonic horn.
4. The villain deployed the plasma glider, then set up a laser grid.
5. The villain triggered the quantum warp, then set up a laser grid.
6. The villain deployed the plasma glider, then latched a grapple hook.
7. The villain executed a nitro drift, then set up a laser grid.
8. The villain executed a nitro drift, then fired the emp cannon.
9. The villain raised the ion shield, then latched a grapple hook.
10. The villain activated the turbo boost, then latched a grapple hook.
11. The villain activated the turbo boost, then blasted the sonic horn.
12. The villain triggered the quantum warp, then fired the emp cannon.

TEACHER / PARENT

Answer Key

The Sabotage at Outpost 67

Culprit: Cora Comet

Ion Shield · Sonic Horn · Right Handed · Chrome Silver Helmet · Foam Bomb

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT USE A SLICK DROPPER"

5475 + 3730 = 9205 (T) · 1163 + 1270 = 2433 (C) · 1339 + 884 = 2223 (D) · 1268 + 1539 = 2807 (U) · 1379 + 2684 = 4063 (O) · 3336 + 2348 = 5684 (L) · 4570 + 2149 = 6719 (H) · 5916 + 3137 = 9053 (S) · 2824 + 1380 = 4204 (E) · 3306 + 3951 = 7257 (N) · 1305 + 2546 = 3851 (I) · 5232 + 2463 = 7695 (P) · 4753 + 3131 = 7884 (R) · 4219 + 3382 = 7601 (A) · 5105 + 2611 = 7716 (K)

Clue 2 (Multiplication facts (1-12)): "THE SABOTEUR WAS PROVED TO BE RIGHT HANDED"

8 × 5 = 40 (T) · 11 × 10 = 110 (W) · 11 × 11 = 121 (E) · 11 × 4 = 44 (B) · 5 × 1 = 5 (U) · 3 × 1 = 3 (O) · 1 × 2 = 2 (A) · 1 × 11 = 11 (H) · 8 × 11 = 88 (V) · 7 × 5 = 35 (S) · 4 × 9 = 36 (P) · 5 × 12 = 60 (G) · 4 × 2 = 8 (N) · 7 × 3 = 21 (I) · 11 × 6 = 66 (D) · 5 × 3 = 15 (R)

Clue 3 (Rounding): "A FOAM BOMB DISABLED THE SPEEDING KART"

Round 168 to the nearest hundred = 200 (A) · Round 48 to the nearest ten = 50 (T) · Round 370 to the nearest ten = 370 (N) · Round 300 to the nearest hundred = 300 (R) · Round 5,150 to the nearest thousand = 5000 (F) · Round 9,237 to the nearest thousand = 9000 (G) · Round 1,764 to the nearest thousand = 2000 (B) · Round 232 to the nearest ten = 230 (H) · Round 918 to the nearest hundred = 900 (I) · Round 3,077 to the nearest thousand = 3000 (D) · Round 7,408 to the nearest thousand = 7000 (E) · Round 3,740 to the nearest hundred = 3700 (O) · Round 2,299 to the nearest hundred = 2300 (P) · Round 533 to the nearest hundred = 500 (K) · Round 2,863 to the nearest hundred = 2900 (M) · Round 431 to the nearest ten = 430 (S) · Round 293 to the nearest ten = 290 (L)

Clue 4 (Fractions of a number): "A CHROME SILVER HELMET REFLECTION WAS SEEN"

5/8 of 48 = 30 (A) · 3/8 of 64 = 24 (L) · 1/3 of 69 = 23 (E) · 2/6 of 42 = 14 (I) · 5/10 of 76 = 38 (H) · 1/2 of 18 = 9 (M) · 2/5 of 85 = 34 (C) · 2/6 of 93 = 31 (R) · 3/6 of 22 = 11 (N) · 1/10 of 20 = 2 (T) · 2/8 of 156 = 39 (W) · 3/10 of 40 = 12 (S) · 1/6 of 192 = 32 (O) · 4/6 of 60 = 40 (F) · 3/4 of 44 = 33 (V)

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

24 ÷ 6 = 4 · 70 ÷ 10 = 7 · 48 ÷ 8 = 6 · 72 ÷ 8 = 9 · 55 ÷ 11 = 5 · 16 ÷ 2 = 8 · 84 ÷ 7 = 12 · 20 ÷ 2 = 10 · 22 ÷ 2 = 11 · 18 ÷ 9 = 2 · 21 ÷ 7 = 3