



The Sabotage at McLaren Speed Labs

Grade 10 math · Addition, Subtraction, Multiplication, Multi-step word problems, Division · Reading level grades 5-6

Detective: _____ Date: _____

The ultimate McLaren concept car was about to start its first test lap, but someone tampered with the engine mapping! The telemetry data is scrambled, and the main power unit is locked down. We need a top detective to analyze the tracks, decipher the telemetry, and find out which driver compromised the garage before the big grand prix begins.

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 Racer is _____

Possible suspects

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

NAME	RACING TECHNIQUE	SPECIAL MODIFICATION	STEERING GRIP	DRIVER GEAR	TRACK HAZARD
Daniel	Overtake Mode Boost	Instant Pitstop Jack	Left Handed Driver	Silver Racing Visor	High Drag Wings
Alain	Late Apex Braking	Traction Control Override	Left Handed Driver	Matte Black Helmet	Sticky Wet Tires
Kimi	Super Draft Drafting	Papaya Nitro Charge	Right Handed Driver	Matte Black Helmet	Sticky Wet Tires
Carlos	Active Aero Control	Traction Control Override	Right Handed Driver	Silver Racing Visor	Slippery Oil Slicks
David	Active Aero Control	Instant Pitstop Jack	Right Handed Driver	Matte Black Helmet	Sticky Wet Tires
Yuki	Super Draft Drafting	Traction Control Override	Right Handed Driver	Silver Racing Visor	High Drag Wings
Alex	Super Draft Drafting	Telemetry Jammer Beam	Right Handed Driver	Matte Black Helmet	Slippery Oil Slicks
Oscar	Overtake Mode Boost	Papaya Nitro Charge	Right Handed Driver	Matte Black Helmet	Sticky Wet Tires
Pierre	High Downforce Setup	Instant Pitstop Jack	Right Handed Driver	Matte Black Helmet	Sticky Wet Tires
Fernando	Super Draft Drafting	Traction Control Override	Left Handed Driver	Silver Racing Visor	Slippery Oil Slicks
Lewis	Super Draft Drafting	Carbon Fiber Shield	Left Handed Driver	Matte Black Helmet	Slippery Oil Slicks
Lando	Late Apex Braking	Traction Control Override	Right Handed Driver	Silver Racing Visor	Sticky Wet Tires
Ayrton	High Downforce Setup	Instant Pitstop Jack	Right Handed Driver	Matte Black Helmet	High Drag Wings
Stoffel	Late Apex Braking	Traction Control Override	Right Handed Driver	Matte Black Helmet	High Drag Wings
Charles	Late Apex Braking	Traction Control Override	Right Handed Driver	Silver Racing Visor	High Drag Wings
Jenson	High Downforce Setup	Telemetry Jammer Beam	Right Handed Driver	Matte Black Helmet	High Drag Wings
Bruce	Active Aero Control	Telemetry Jammer Beam	Right Handed Driver	Matte Black Helmet	Sticky Wet Tires
Esteban	Super Draft Drafting	Papaya Nitro Charge	Right Handed Driver	Matte Black Helmet	Slippery Oil Slicks
George	High Downforce Setup	Carbon Fiber Shield	Right Handed Driver	Matte Black Helmet	Slippery Oil Slicks
Mika	Active Aero Control	Traction Control Override	Right Handed Driver	Matte Black Helmet	Slippery Oil Slicks
Logan	Super Draft Drafting	Telemetry Jammer Beam	Left Handed Driver	Silver Racing Visor	High Drag Wings

CLUE 1 Addition

The team adds up the spent tires from the last practice session to find the first code.

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

T																	
3515	8179	4569	8915	4268	4587	5722	4569	8915	3843	7251	4569	8915	5640	3843	7251	3014	2046

T			T						T								
3515	8179	4569	3515	4569	5640	4569	7573	4569	3515	8915	8832	7664	3843	7573	7573	4569	8915

$$2427 + 1088 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1003 + 1043 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1546 + 1468 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$1542 + 2726 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$1806 + 2037 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$3080 + 1489 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3394 + 5438 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$3248 + 4003 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$2027 + 3695 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$4308 + 3356 = \boxed{} \rightarrow \boxed{\text{J}}$$

$$4697 + 2876 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$4302 + 3877 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4825 + 4090 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1785 + 3855 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2854 + 1733 = \boxed{} \rightarrow \boxed{\text{G}}$$

Scratch space:

Subtraction

To decode the camera feed, we subtract the slowest lap time from the fastest lap time.

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

Diagram showing the arrangement of 2663 and 7847 in two rows. The top row contains 14 boxes, with the 4th and 11th boxes containing 'T'. The bottom row contains 14 boxes, with the 6th box containing 'T'. The numbers 2663 and 7847 are placed below the boxes in the top row, and 7612, 8267, 1514, 8395, 5171, 2663, 5171, 7612, 5657, 5180, 7847, 5180, 8395, 8267, 1514, 7825 are placed below the boxes in the bottom row.

$$5639 - 2976 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$8975 - 1128 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$6748 - 1577 = \boxed{} \rightarrow \boxed{\text{H}}$$

$8439 - 3702 = \boxed{} \rightarrow \boxed{\text{W}}$

$1938 - 424 = \boxed{} \rightarrow \boxed{}$

$3992 - 583 = \boxed{} \rightarrow \boxed{\text{S}}$

7058 - 3417 = → **U**

$$10516 - 2409 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$10163 - 2338 = \boxed{} \rightarrow \boxed{\text{P}}$$

$11818 - 4206 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$11027 - 2760 = \boxed{} \rightarrow \boxed{\text{R}}$$

$8749 - 3569 = \boxed{} \rightarrow \boxed{\text{D}}$

11868 - 3473 = → **G**

$8890 - 3571 = \boxed{} \rightarrow \boxed{\text{C}}$

$$10544 - 4887 = \boxed{} \rightarrow \boxed{\text{N}}$$

Scratch space:

CLUE 3

Multiplication facts (1-12)

We multiply the rows of spare wings in the McLaren garage to unlock the encrypted telemetry.

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

T																		
28	108	35	72	35	108	60	20	14	35	99	11	18	18	14	2	99	35	32

			T							T	T				
24	10	18	28	60	20	70	10	99	35	28	28	60	22	35	18

$7 \times 4 = \square \rightarrow \text{T}$

$10 \times 1 = \square \rightarrow \text{Y}$

$2 \times 7 = \square \rightarrow \text{L}$

$4 \times 8 = \square \rightarrow \text{D}$

$2 \times 12 = \square \rightarrow \text{B}$

$1 \times 11 = \square \rightarrow \text{A}$

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

$7 \times 10 = \square \rightarrow \text{K}$

$2 \times 1 = \square \rightarrow \text{O}$

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

$9 \times 12 = \square \rightarrow \text{H}$

$5 \times 7 = \square \rightarrow \text{E}$

$2 \times 9 = \square \rightarrow \text{S}$

$6 \times 10 = \square \rightarrow \text{I}$

$11 \times 9 = \square \rightarrow \text{W}$

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

Scratch space:

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

We divide the total sensor alerts among the engineers to quickly isolate the exact signal.

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:

$30 \div 10 = \boxed{}$

$121 \div 11 = \boxed{}$

$8 \div 2 = \boxed{}$

$16 \div 8 = \boxed{}$

$55 \div 11 = \boxed{}$

$7 \div 1 = \boxed{}$

$45 \div 5 = \boxed{}$

$10 \div 1 = \boxed{}$

$66 \div 11 = \boxed{}$

$132 \div 11 = \boxed{}$

$56 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain activates the super draft drafting, then deploys a papaya nitro charge.
2. The villain activates the super draft drafting, then initiates a telemetry jammer beam.
3. The villain triggers the overtake mode boost, then deploys a papaya nitro charge.
4. The villain configures a high downforce setup, then utilizes an instant pitstop jack.
5. The villain activates the super draft drafting, then utilizes an instant pitstop jack.
6. The villain performs late apex braking, then raises a carbon fiber shield.
7. The villain engages the active aero control, then deploys a papaya nitro charge.
8. The villain performs late apex braking, then deploys a papaya nitro charge.
9. The villain configures a high downforce setup, then activates the traction control override.
10. The villain triggers the overtake mode boost, then initiates a telemetry jammer beam.
11. The villain engages the active aero control, then utilizes an instant pitstop jack.
12. The villain activates the super draft drafting, then raises a carbon fiber shield.

Answer Key

The Sabotage at McLaren Speed Labs

Culprit: Kimi

Super Draft Drafting · Papaya Nitro Charge · Right Handed Driver · Matte Black Helmet · Sticky Wet Tires

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE ROGUE RACER LACKS THE TELEMETRY JAMMER"

$2427 + 1088 = 3515$ (T) · $1003 + 1043 = 2046$ (S) · $1546 + 1468 = 3014$ (K) · $1542 + 2726 = 4268$ (O) · $1806 + 2037 = 3843$ (A) · $3080 + 1489 = 4569$ (E) · $3394 + 5438 = 8832$ (Y) · $3248 + 4003 = 7251$ (C) · $2027 + 3695 = 5722$ (U) · $4308 + 3356 = 7664$ (J) · $4697 + 2876 = 7573$ (M) · $4302 + 3877 = 8179$ (H) · $4825 + 4090 = 8915$ (R) · $1785 + 3855 = 5640$ (L) · $2854 + 1733 = 4587$ (G)

Clue 2 (Subtraction): "THE SUSPECT DRIVES WITH A RIGHT HANDED GRIP"

$5639 - 2976 = 2663$ (T) · $8975 - 1128 = 7847$ (E) · $6748 - 1577 = 5171$ (H) · $8439 - 3702 = 4737$ (W) · $1938 - 424 = 1514$ (I) · $3992 - 583 = 3409$ (S) · $7058 - 3417 = 3641$ (U) · $10516 - 2409 = 8107$ (V) · $10163 - 2338 = 7825$ (P) · $11818 - 4206 = 7612$ (A) · $11027 - 2760 = 8267$ (R) · $8749 - 3569 = 5180$ (D) · $11868 - 3473 = 8395$ (G) · $8890 - 3571 = 5319$ (C) · $10544 - 4887 = 5657$ (N)

Clue 3 (Multiplication facts (1-12)): "THE VEHICLE WAS SLOWED BY STICKY WET TIRES"

$7 \times 4 = 28$ (T) · $10 \times 1 = 10$ (Y) · $2 \times 7 = 14$ (L) · $4 \times 8 = 32$ (D) · $2 \times 12 = 24$ (B) · $1 \times 11 = 11$ (A) · $9 \times 8 = 72$ (V) · $7 \times 10 = 70$ (K) · $2 \times 1 = 2$ (O) · $2 \times 10 = 20$ (C) · $9 \times 12 = 108$ (H) · $5 \times 7 = 35$ (E) · $2 \times 9 = 18$ (S) · $6 \times 10 = 60$ (I) · $11 \times 9 = 99$ (W) · $2 \times 11 = 22$ (R)

Clue 4 (Multi-step word problems): "MATTE BLACK HELMET"

Chief mechanic collected 47 steering wheel in the morning and 205 steering wheel in the afternoon, then split them equally among 3 McLaren Crew. How many steering wheel did each get? = 84 (M) · Chief mechanic collected 6 steering wheel in the morning and 21 steering wheel in the afternoon, then split them equally among 3 McLaren Crew. How many steering wheel did each get? = 9 (B) · There were 144 telemetry tablet in all. 4 telemetry tablet were set aside. The rest were shared equally among 10 McLaren Crew. How many telemetry tablet did each get? = 14 (L) · There were 863 steering wheel in all. 13 steering wheel were set aside. The rest were shared equally among 10 McLaren Crew. How many steering wheel did each get? = 85 (A) · Chief mechanic earned 2 telemetry tablet in each of 4 rounds, plus 83 bonus telemetry tablet. Then 11 telemetry tablet were lost. How many telemetry tablet are left? = 80 (C) · Chief mechanic filled 6 boxes with 6 telemetry tablet each, then found 11 more telemetry tablet. How many telemetry tablet are there in all? = 47 (E) · There were 365 racing helmet in all. 5 racing helmet were set aside. The rest were shared equally among 5 McLaren Crew. How many racing helmet did each get? = 72 (T)

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

$30 \div 10 = 3$ · $121 \div 11 = 11$ · $8 \div 2 = 4$ · $16 \div 8 = 2$ · $55 \div 11 = 5$ · $7 \div 1 = 7$ · $45 \div 5 = 9$ · $10 \div 1 = 10$ · $66 \div 11 = 6$ · $132 \div 11 = 12$ · $56 \div 7 = 8$