



The Great Championship Trophy Sabotage

Grade 4 math · Addition, Subtraction, Multiplication, Word problems, Fractions of a number · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone hacked the stadium servers and stole the Golden Championship Trophy right before the big finals! The Arena Referee Bot was left spinning in circles on the field. It is up to you to find the rogue driver, recover the trophy, and save the tournament!

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 driver is _____

Possible suspects

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

NAME	CAR BODY	BOOST TRAIL	DECAL PAINT	ROOF TOPPER	COUNTER PLAY
BeastMode	Octane Hitbox	Portal Boost Trail	Blue Team Paint	Pixelated Shades Topper	Complete Boost Starvation
GarrettG	Octane Hitbox	Pixel Fire Boost	Orange Team Paint	Pixelated Shades Topper	Heavy Demolition Bump
Jstn	Dominus Hitbox	Dueling Dragons Goal	Blue Team Paint	Foam Hat Topper	Heavy Demolition Bump
FairyPeak	Octane Hitbox	Portal Boost Trail	Orange Team Paint	Halo Topper	Complete Boost Starvation
Turbopolsa	Fennec Hitbox	Dueling Dragons Goal	Blue Team Paint	Halo Topper	Complete Boost Starvation
Squishy	Merc Hitbox	Dueling Dragons Goal	Blue Team Paint	Halo Topper	Complete Boost Starvation
Kaydop	Octane Hitbox	Portal Boost Trail	Orange Team Paint	Pixelated Shades Topper	Heavy Demolition Bump
Lethamyr	Octane Hitbox	Portal Boost Trail	Orange Team Paint	Foam Hat Topper	Complete Boost Starvation
Chronic	Dominus Hitbox	Pixel Fire Boost	Blue Team Paint	Pixelated Shades Topper	Sticky Goal Post Trap
JKnaps	Dominus Hitbox	Splash Goal Explosion	Orange Team Paint	Foam Hat Topper	Heavy Demolition Bump
Retals	Dominus Hitbox	Gold Rush Boost	Orange Team Paint	Foam Hat Topper	Heavy Demolition Bump
Firstkiller	Breakout Hitbox	Splash Goal Explosion	Blue Team Paint	Foam Hat Topper	Heavy Demolition Bump
Comm	Fennec Hitbox	Portal Boost Trail	Blue Team Paint	Halo Topper	Complete Boost Starvation
Arsenal	Breakout Hitbox	Portal Boost Trail	Blue Team Paint	Halo Topper	Heavy Demolition Bump
Daniel	Breakout Hitbox	Gold Rush Boost	Blue Team Paint	Halo Topper	Complete Boost Starvation
Vatira	Breakout Hitbox	Portal Boost Trail	Blue Team Paint	Halo Topper	Sticky Goal Post Trap
Mist	Fennec Hitbox	Dueling Dragons Goal	Blue Team Paint	Foam Hat Topper	Heavy Demolition Bump
Musty	Octane Hitbox	Pixel Fire Boost	Blue Team Paint	Halo Topper	Complete Boost Starvation
Chicago	Breakout Hitbox	Splash Goal Explosion	Blue Team Paint	Pixelated Shades Topper	Complete Boost Starvation
Rizzo	Octane Hitbox	Dueling Dragons Goal	Blue Team Paint	Pixelated Shades Topper	Heavy Demolition Bump
MonkeyMoon	Octane Hitbox	Splash Goal Explosion	Blue Team Paint	Foam Hat Topper	Complete Boost Starvation

CLUE 1 Addition

The stadium gatekeepers counted the spare tires left in the garage. They added up the front tires and rear tires to see which bay was opened by the thief.

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

T																	
5364	7999	2425	2287	6084	9458	4853	2425	5294	2287	7511	5356	2425	2287	5294	6084	2425	2875

		T												
7179	6084	5364	4853	2875	2425	9446	7511	2510	2425	4299	9676	7511	2287	2425

				T
3130	6084	6084	2875	5364

$3215 + 2149 = \square \rightarrow \text{[T]}$	$4755 + 4921 = \square \rightarrow \text{[F]}$	$1584 + 926 = \square \rightarrow \text{[X]}$
$3564 + 5894 = \square \rightarrow \text{[G]}$	$4846 + 2665 = \square \rightarrow \text{[I]}$	$939 + 2191 = \square \rightarrow \text{[B]}$
$3204 + 3975 = \square \rightarrow \text{[N]}$	$4921 + 4525 = \square \rightarrow \text{[P]}$	$1273 + 1014 = \square \rightarrow \text{[R]}$
$753 + 1672 = \square \rightarrow \text{[E]}$	$2441 + 3643 = \square \rightarrow \text{[O]}$	$1538 + 1337 = \square \rightarrow \text{[S]}$
$1582 + 2717 = \square \rightarrow \text{[L]}$	$2139 + 3217 = \square \rightarrow \text{[V]}$	$2834 + 2019 = \square \rightarrow \text{[U]}$
$2075 + 3219 = \square \rightarrow \text{[D]}$	$3456 + 4543 = \square \rightarrow \text{[H]}$	

Scratch space:

CLUE 2
Subtraction

To check the boost pad security log, we had to subtract the empty boost canisters from the total inventory to find the missing fuel amount.

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

W																
4747	3498	3944	4363	7212	5011	5011	3498	2223	6542	8507	3898	3498	5011	3498	6917	5170

														W			
4363	6917	4395	6616	5011	7212	6616	5011	6634	3498	6917	1521	3498	6616	6917	4747	6917	8507

$4784 - 37 = \square \rightarrow \text{W}$

$5141 - 130 = \square \rightarrow \text{T}$

$10627 - 3710 = \square \rightarrow \text{A}$

$4070 - 1847 = \square \rightarrow \text{D}$

$11080 - 4538 = \square \rightarrow \text{B}$

$9308 - 801 = \square \rightarrow \text{L}$

$8098 - 1482 = \square \rightarrow \text{N}$

$9770 - 4600 = \square \rightarrow \text{M}$

$8825 - 2191 = \square \rightarrow \text{H}$

$4481 - 2960 = \square \rightarrow \text{R}$

$4067 - 569 = \square \rightarrow \text{E}$

$5359 - 1461 = \square \rightarrow \text{U}$

$6952 - 2589 = \square \rightarrow \text{P}$

$6738 - 2343 = \square \rightarrow \text{I}$

$7986 - 774 = \square \rightarrow \text{O}$

$5166 - 1222 = \square \rightarrow \text{S}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

We found rows of trade crates stacked in the cargo hold. Multiplying the crates per row by the number of rows gives us the secret entry code.

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

S															S			
63	28	49	45	88	45	88	88	16	120	1	60	90	11	11	63	28		
			S				S											
110	45	60	63	28	11	63	28	45	120	80	49	28	99	49	42	11	70	28

$9 \times 7 = \square \rightarrow$ S	$4 \times 7 = \square \rightarrow$ T	$10 \times 11 = \square \rightarrow$ P
$11 \times 1 = \square \rightarrow$ O	$5 \times 9 = \square \rightarrow$ A	$12 \times 10 = \square \rightarrow$ R
$7 \times 10 = \square \rightarrow$ U	$2 \times 8 = \square \rightarrow$ G	$7 \times 6 = \square \rightarrow$ M
$8 \times 10 = \square \rightarrow$ V	$10 \times 9 = \square \rightarrow$ B	$7 \times 7 = \square \rightarrow$ E
$9 \times 11 = \square \rightarrow$ H	$1 \times 1 = \square \rightarrow$ I	$10 \times 6 = \square \rightarrow$ D
$8 \times 11 = \square \rightarrow$ L		

Scratch space:

CLUE 4

Word problems

A mechanic needs to calculate how many standard games our team can play before refueling. Solve this problem to unlock the security cameras.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of H R hair turned up at the scene.

13 68 26 46 75 46 73 73 7

Coach Octane found 9 car decals yesterday and 4 more today. How many car decals in all?

Answer: → H

There were 108 trophy cases. 33 were used up. How many trophy cases are left?

Answer: → T

Coach Octane found 2 stadium seats yesterday and 44 more today. How many stadium seats in all?

Answer: → O

There were 77 trophy cases. 4 were used up. How many trophy cases are left?

Answer: → P

Coach Octane found 3 trophy cases yesterday and 4 more today. How many trophy cases in all?

Answer: → E

There were 55 mini soccer balls. 29 were used up. How many mini soccer balls are left?

Answer: → L

Coach Octane found 52 car decals yesterday and 16 more today. How many car decals in all?

Answer: → A

Scratch space:

CLUE 5**Fractions of a number - the last clue**

The scoreboard only showed a fraction of the total match data. Finding that fraction of the total goals reveals the final clue.

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:

$2/8 \text{ of } 4 = \boxed{}$

$1/10 \text{ of } 40 = \boxed{}$

$3/5 \text{ of } 15 = \boxed{}$

$1/5 \text{ of } 15 = \boxed{}$

$8/10 \text{ of } 10 = \boxed{}$

$4/10 \text{ of } 5 = \boxed{}$

$1/8 \text{ of } 48 = \boxed{}$

$1/10 \text{ of } 120 = \boxed{}$

$7/8 \text{ of } 8 = \boxed{}$

$2/5 \text{ of } 25 = \boxed{}$

$1/6 \text{ of } 30 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain flies through the air in a Breakout, then then vanishes in a cloud of Gold Rush boost.
2. The villain zooms past the goalie using an Octane, then then celebrates with a Splash explosion.
3. The villain strikes the ball using a swift Fennec, then then vanishes in a cloud of Gold Rush boost.
4. The villain strikes the ball using a swift Fennec, then then summons Dueling Dragons to block the net.
5. The villain zooms past the goalie using an Octane, then then speeds away leaving a Portal trail.
6. The villain bashes through defenders in a heavy Merc, then then sparks up the arena with Pixel Fire.
7. The villain zooms past the goalie using an Octane, then then summons Dueling Dragons to block the net.
8. The villain zooms past the goalie using an Octane, then then vanishes in a cloud of Gold Rush boost.
9. The villain bashes through defenders in a heavy Merc, then then summons Dueling Dragons to block the net.
10. The villain slides across the ceiling with a Dominus, then then speeds away leaving a Portal trail.
11. The villain strikes the ball using a swift Fennec, then then speeds away leaving a Portal trail.
12. The villain slides across the ceiling with a Dominus, then then vanishes in a cloud of Gold Rush boost.

Answer Key

The Great Championship Trophy Sabotage

Culprit: Comm

Fennec Hitbox · Portal Boost Trail · Blue Team Paint · Halo Topper · Complete Boost Starvation

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE ROGUE DRIVER DOES NOT USE PIXEL FIRE BOOST"

$3215 + 2149 = 5364$ (T) · $4755 + 4921 = 9676$ (F) · $1584 + 926 = 2510$ (X) · $3564 + 5894 = 9458$ (G) · $4846 + 2665 = 7511$ (I) · $939 + 2191 = 3130$ (B) · $3204 + 3975 = 7179$ (N) · $4921 + 4525 = 9446$ (P) · $1273 + 1014 = 2287$ (R) · $753 + 1672 = 2425$ (E) · $2441 + 3643 = 6084$ (O) · $1538 + 1337 = 2875$ (S) · $1582 + 2717 = 4299$ (L) · $2139 + 3217 = 5356$ (V) · $2834 + 2019 = 4853$ (U) · $2075 + 3219 = 5294$ (D) · $3456 + 4543 = 7999$ (H)

Clue 2 (Subtraction): "WE SPOTTED BLUE TEAM PAINT ON THE ARENA WALL"

$4784 - 37 = 4747$ (W) · $5141 - 130 = 5011$ (T) · $10627 - 3710 = 6917$ (A) · $4070 - 1847 = 2223$ (D) · $11080 - 4538 = 6542$ (B) · $9308 - 801 = 8507$ (L) · $8098 - 1482 = 6616$ (N) · $9770 - 4600 = 5170$ (M) · $8825 - 2191 = 6634$ (H) · $4481 - 2960 = 1521$ (R) · $4067 - 569 = 3498$ (E) · $5359 - 1461 = 3898$ (U) · $6952 - 2589 = 4363$ (P) · $6738 - 2343 = 4395$ (I) · $7986 - 774 = 7212$ (O) · $5166 - 1222 = 3944$ (S)

Clue 3 (Multiplication facts (1-12)): "STEAL ALL GRID BOOST PADS TO STARVE THEM OUT"

$9 \times 7 = 63$ (S) · $4 \times 7 = 28$ (T) · $10 \times 11 = 110$ (P) · $11 \times 1 = 11$ (O) · $5 \times 9 = 45$ (A) · $12 \times 10 = 120$ (R) · $7 \times 10 = 70$ (U) · $2 \times 8 = 16$ (G) · $7 \times 6 = 42$ (M) · $8 \times 10 = 80$ (V) · $10 \times 9 = 90$ (B) · $7 \times 7 = 49$ (E) · $9 \times 11 = 99$ (H) · $1 \times 1 = 1$ (I) · $10 \times 6 = 60$ (D) · $8 \times 11 = 88$ (L)

Clue 4 (Word problems): "HALO TOPPER"

Coach Octane found 9 car decals yesterday and 4 more today. How many car decals in all? = 13 (H) · There were 108 trophy cases. 33 were used up. How many trophy cases are left? = 75 (T) · Coach Octane found 2 stadium seats yesterday and 44 more today. How many stadium seats in all? = 46 (O) · There were 77 trophy cases. 4 were used up. How many trophy cases are left? = 73 (P) · Coach Octane found 3 trophy cases yesterday and 4 more today. How many trophy cases in all? = 7 (E) · There were 55 mini soccer balls. 29 were used up. How many mini soccer balls are left? = 26 (L) · Coach Octane found 52 car decals yesterday and 16 more today. How many car decals in all? = 68 (A)

Clue 5 (Fractions of a number): surviving statement is box 11 → Comm

$\frac{2}{8}$ of 4 = 1 · $\frac{1}{10}$ of 40 = 4 · $\frac{3}{5}$ of 15 = 9 · $\frac{1}{5}$ of 15 = 3 · $\frac{8}{10}$ of 10 = 8 · $\frac{4}{10}$ of 5 = 2 · $\frac{1}{8}$ of 48 = 6 · $\frac{1}{10}$ of 120 = 12 · $\frac{7}{8}$ of 8 = 7 · $\frac{2}{5}$ of 25 = 10 · $\frac{1}{6}$ of 30 = 5