



The Coconut Cup Caper

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

The golden trophy for the Coconut Island Grand Prix has gone missing right before the final race! A rogue racer swiped the prize from the winner's podium and zoomed off into the jungle track. We must find out who took it before the racers cross the starting line!

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	KART TYPE	SPECIAL GADGET	STEERING STYLE	HELMET COLOR	TRACK HAZARD
Cruiser Clara	rocket booster kart	confetti cannon	right handed steering	hot pink helmet	slippery banana peels
Suzi Spark	heavy drill bumper	gummy slime launcher	right handed steering	bright orange helmet	deep mud puddles
Zoomer Zach	heavy drill bumper	gummy slime launcher	right handed steering	neon yellow helmet	deep mud puddles
Drift Dan	hover tread glider	confetti cannon	left handed steering	hot pink helmet	bumpy gravel paths
Dash Randal	heavy drill bumper	super magnet beam	right handed steering	hot pink helmet	bumpy gravel paths
Bella Burnout	rocket booster kart	turbo wind sail	right handed steering	hot pink helmet	bumpy gravel paths
Molly Miles	bubble shield cruiser	gummy slime launcher	right handed steering	hot pink helmet	bumpy gravel paths
Gaby Gas	heavy drill bumper	gummy slime launcher	right handed steering	hot pink helmet	slippery banana peels
Gears Greg	rocket booster kart	giant jump spring	right handed steering	neon yellow helmet	slippery banana peels
Roxy Rocket	rocket booster kart	turbo wind sail	right handed steering	bright orange helmet	deep mud puddles
Skid Sally	hover tread glider	turbo wind sail	right handed steering	hot pink helmet	bumpy gravel paths
Nitro Nick	rocket booster kart	giant jump spring	right handed steering	bright orange helmet	bumpy gravel paths
Maxie Motor	bubble shield cruiser	confetti cannon	right handed steering	bright orange helmet	deep mud puddles
Crash Carter	bubble shield cruiser	turbo wind sail	left handed steering	hot pink helmet	slippery banana peels
Turbo Tommy	rocket booster kart	confetti cannon	left handed steering	neon yellow helmet	deep mud puddles
Axel Adams	heavy drill bumper	gummy slime launcher	right handed steering	neon yellow helmet	bumpy gravel paths
Rusty Gears	bubble shield cruiser	giant jump spring	left handed steering	neon yellow helmet	bumpy gravel paths
Penny Shift	hover tread glider	super magnet beam	right handed steering	bright orange helmet	deep mud puddles
Buster Bumper	rocket booster kart	turbo wind sail	left handed steering	hot pink helmet	bumpy gravel paths
Vinnie Valve	bubble shield cruiser	super magnet beam	right handed steering	hot pink helmet	bumpy gravel paths
Pippa Piston	bubble shield cruiser	turbo wind sail	right handed steering	hot pink helmet	bumpy gravel paths

CLUE 1
Rounding

The speed radar at the jungle checkpoint caught a blur, but it only shows speeds rounded to the nearest ten.

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

T												T					
2300	9000	30	110	90	70	30	110	3000	2900	30	370	430	2900	2300	7000	370	30

T						T						
2300	9000	30	3700	90	170	430	30	2300	4300	30	90	3700

Round 2,322 to the nearest hundred → **T**

Round 7,167 to the nearest thousand → **U**

Round 3,695 to the nearest hundred → **M**

Round 88 to the nearest ten → **A**

Round 167 to the nearest ten → **G**

Round 2,857 to the nearest hundred → **O**

Round 67 to the nearest ten → **C**

Round 431 to the nearest ten → **N**

Round 368 to the nearest ten → **S**

Round 33 to the nearest ten → **E**

Round 107 to the nearest ten → **R**

Round 2,872 to the nearest thousand → **D**

Round 4,254 to the nearest hundred → **B**

Round 8,564 to the nearest thousand → **H**

Scratch space:

CLUE 2

To find the track locker key, we must add up all the spare rubber tires piled up in the pit crew garage.

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

8326 7291 8190 4958

5852 8326 8190 8190 6714 8190 2937

2647 6527 2274 4958

9592 2132 8326 7291

8326 7291 8190 2132 6714 6714 2132 9554 7291 8326 7291 7018 6527 2937

$$5668 + 2658 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$5607 + 3947 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$693 + 1581 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$4711 + 2580 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$3553 + 3161 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1396 + 736 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$6659 + 2933 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$3904 + 1948 = \boxed{} \rightarrow \boxed{\text{S}}$$

$1549 + 1388 = \boxed{} \rightarrow \boxed{\text{D}}$

$$1562 + 3396 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$1768 + 879 = \boxed{} \rightarrow \boxed{0}$$

$$2492 + 5698 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3264 + 3263 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3052 + 3966 = \boxed{} \rightarrow \boxed{\text{A}}$$

Scratch space:

CLUE 3

Subtraction

The main fuel tank is much lighter now. Subtracting the leftover fuel tells us exactly how much the thief used.

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

T																T		
5524	5601	7970	4990	5539	5704	4864	6204	5601	7970	7635	6785	5024	5524	5601	7970			

													T		
7050	7389	8198	1839	4990	8240	5704	4864	2808	7970	5630	1839	4864	5524	5601	6204

$8201 - 2677 = \square \rightarrow \text{[T]}$

$7485 - 2621 = \square \rightarrow \text{[A]}$

$5868 - 844 = \square \rightarrow \text{[N]}$

$9772 - 1802 = \square \rightarrow \text{[E]}$

$10558 - 3169 = \square \rightarrow \text{[U]}$

$9016 - 4026 = \square \rightarrow \text{[Y]}$

$10915 - 3865 = \square \rightarrow \text{[B]}$

$9598 - 1400 = \square \rightarrow \text{[M]}$

$9318 - 3614 = \square \rightarrow \text{[R]}$

$9398 - 3768 = \square \rightarrow \text{[L]}$

$5887 - 286 = \square \rightarrow \text{[H]}$

$5372 - 3533 = \square \rightarrow \text{[P]}$

$11427 - 3187 = \square \rightarrow \text{[G]}$

$9773 - 3569 = \square \rightarrow \text{[S]}$

$5944 - 3136 = \square \rightarrow \text{[V]}$

$10103 - 3318 = \square \rightarrow \text{[O]}$

$7304 - 1765 = \square \rightarrow \text{[C]}$

$8023 - 388 = \square \rightarrow \text{[D]}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The garage has a grid of toolboxes. Multiplying the rows and columns reveals the security code for the garage door.

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

W																	
40	96	35	45	27	110	10	7	100	45	30	20	49	110	88			
100	96	1	55	96	30	49	110	30	100	96	20	49	30	25	30	45	20

$10 \times 4 = \square \rightarrow \boxed{W}$

$11 \times 5 = \square \rightarrow \boxed{M}$

$7 \times 5 = \square \rightarrow \boxed{F}$

$7 \times 7 = \square \rightarrow \boxed{I}$

$10 \times 10 = \square \rightarrow \boxed{H}$

$8 \times 11 = \square \rightarrow \boxed{K}$

$1 \times 1 = \square \rightarrow \boxed{L}$

$10 \times 3 = \square \rightarrow \boxed{T}$

$9 \times 5 = \square \rightarrow \boxed{O}$

$12 \times 8 = \square \rightarrow \boxed{E}$

$1 \times 10 = \square \rightarrow \boxed{D}$

$1 \times 7 = \square \rightarrow \boxed{A}$

$10 \times 11 = \square \rightarrow \boxed{N}$

$4 \times 5 = \square \rightarrow \boxed{P}$

$5 \times 5 = \square \rightarrow \boxed{S}$

$3 \times 9 = \square \rightarrow \boxed{U}$

Scratch space:

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

We found a box of energy snacks. Sharing them equally among the junior track marshals helps us open the clue safe.

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:

$99 \div 11 = \boxed{}$

$108 \div 9 = \boxed{}$

$96 \div 12 = \boxed{}$

$55 \div 5 = \boxed{}$

$8 \div 8 = \boxed{}$

$24 \div 12 = \boxed{}$

$35 \div 5 = \boxed{}$

$27 \div 9 = \boxed{}$

$5 \div 1 = \boxed{}$

$36 \div 9 = \boxed{}$

$66 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain smashes through the wooden barricade, then leaves a trail of sticky purple slime.
2. The villain splashes through the shallow creek, then blasts sparkly confetti everywhere.
3. The villain smashes through the wooden barricade, then bounces high into the palm trees.
4. The villain skids around the hair-pin turn, then bounces high into the palm trees.
5. The villain smashes through the wooden barricade, then accidentally turns on the magnet beam.
6. The villain skids around the hair-pin turn, then leaves a trail of sticky purple slime.
7. The villain skids around the hair-pin turn, then blasts sparkly confetti everywhere.
8. The villain skids around the hair-pin turn, then blows everyone back with a wind gust.
9. The villain splashes through the shallow creek, then leaves a trail of sticky purple slime.
10. The villain zooms past the grandstand, then blows everyone back with a wind gust.
11. The villain leaps off the mega ramp, then bounces high into the palm trees.
12. The villain splashes through the shallow creek, then blows everyone back with a wind gust.

Answer Key

The Coconut Cup Caper

Culprit: Bella Burnout

rocket booster kart · turbo wind sail · right handed steering · hot pink helmet · bumpy gravel paths

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE RACER DOES NOT USE THE MAGNET BEAM"

Round 2,322 to the nearest hundred = 2300 (T) · Round 7,167 to the nearest thousand = 7000 (U) · Round 3,695 to the nearest hundred = 3700 (M) · Round 88 to the nearest ten = 90 (A) · Round 167 to the nearest ten = 170 (G) · Round 2,857 to the nearest hundred = 2900 (O) · Round 67 to the nearest ten = 70 (C) · Round 431 to the nearest ten = 430 (N) · Round 368 to the nearest ten = 370 (S) · Round 33 to the nearest ten = 30 (E) · Round 107 to the nearest ten = 110 (R) · Round 2,872 to the nearest thousand = 3000 (D) · Round 4,254 to the nearest hundred = 4300 (B) · Round 8,564 to the nearest thousand = 9000 (H)

Clue 2 (Addition): "THEY STEERED ONLY WITH THEIR RIGHT HAND"

$5668 + 2658 = 8326$ (T) · $5607 + 3947 = 9554$ (G) · $693 + 1581 = 2274$ (L) · $4711 + 2580 = 7291$ (H) · $3553 + 3161 = 6714$ (R) · $1396 + 736 = 2132$ (I) · $6659 + 2933 = 9592$ (W) · $3904 + 1948 = 5852$ (S) · $1549 + 1388 = 2937$ (D) · $1562 + 3396 = 4958$ (Y) · $1768 + 879 = 2647$ (O) · $2492 + 5698 = 8190$ (E) · $3264 + 3263 = 6527$ (N) · $3052 + 3966 = 7018$ (A)

Clue 3 (Subtraction): "THEY CRASHED ON THE BUMPY GRAVEL PATHS"

$8201 - 2677 = 5524$ (T) · $7485 - 2621 = 4864$ (A) · $5868 - 844 = 5024$ (N) · $9772 - 1802 = 7970$ (E) · $10558 - 3169 = 7389$ (U) · $9016 - 4026 = 4990$ (Y) · $10915 - 3865 = 7050$ (B) · $9598 - 1400 = 8198$ (M) · $9318 - 3614 = 5704$ (R) · $9398 - 3768 = 5630$ (L) · $5887 - 286 = 5601$ (H) · $5372 - 3533 = 1839$ (P) · $11427 - 3187 = 8240$ (G) · $9773 - 3569 = 6204$ (S) · $5944 - 3136 = 2808$ (V) · $10103 - 3318 = 6785$ (O) · $7304 - 1765 = 5539$ (C) · $8023 - 388 = 7635$ (D)

Clue 4 (Multiplication facts (1-12)): "WE FOUND A HOT PINK HELMET IN THE PIT STOP"

$10 \times 4 = 40$ (W) · $11 \times 5 = 55$ (M) · $7 \times 5 = 35$ (F) · $7 \times 7 = 49$ (I) · $10 \times 10 = 100$ (H) · $8 \times 11 = 88$ (K) · $1 \times 1 = 1$ (L) · $10 \times 3 = 30$ (T) · $9 \times 5 = 45$ (O) · $12 \times 8 = 96$ (E) · $1 \times 10 = 10$ (D) · $1 \times 7 = 7$ (A) · $10 \times 11 = 110$ (N) · $4 \times 5 = 20$ (P) · $5 \times 5 = 25$ (S) · $3 \times 9 = 27$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Bella Burnout

$99 \div 11 = 9$ · $108 \div 9 = 12$ · $96 \div 12 = 8$ · $55 \div 5 = 11$ · $8 \div 8 = 1$ · $24 \div 12 = 2$ · $35 \div 5 = 7$ · $27 \div 9 = 3$ · $5 \div 1 = 5$ · $36 \div 9 = 4$ · $66 \div 11 = 6$