



The Case of the Stolen Golden Glove

Grade 8 math · Addition, Multiplication, Rounding, Word problems, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

Just hours before the championship series, someone broke into the team vault at Starlight Stadium and snatched the legendary Golden Glove trophy. Inspect the dugouts, decode the scouting reports, and use math to identify the thief.

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 player is _____

Possible suspects

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

NAME	PITCHING STYLE	BATTING STANCE	THROWING HAND	CAP COLOR	PITCHING FLAW
Corey Seager	Fastball Focus	Closed Stance	Right Handed	Crimson Cap	Low Outside Pitch
Zack Greinke	Fastball Focus	Crouch Stance	Left Handed	Crimson Cap	Sinking Splitter
Manny Machado	Changeup Drift	Crouch Stance	Right Handed	Crimson Cap	Sinking Splitter
Ted Williams	Curveball Arc	High Stance	Left Handed	Gold Cap	Sinking Splitter
Ronald Acuna	Fastball Focus	Wide Stance	Left Handed	Crimson Cap	Sinking Splitter
Paul Goldschmidt	Slider Sweep	Open Stance	Left Handed	Crimson Cap	Sinking Splitter
Willie Mays	Changeup Drift	Closed Stance	Right Handed	Crimson Cap	Low Outside Pitch
Clayton Kershaw	Slider Sweep	High Stance	Left Handed	Gold Cap	Sinking Splitter
Mike Trout	Fastball Focus	Open Stance	Right Handed	Navy Cap	High Fastball
Bryce Harper	Fastball Focus	High Stance	Right Handed	Navy Cap	Sinking Splitter
Derek Jeter	Knuckleball Spin	Open Stance	Right Handed	Navy Cap	Low Outside Pitch
Nolan Arenado	Curveball Arc	Open Stance	Right Handed	Gold Cap	Low Outside Pitch
Gerrit Cole	Slider Sweep	Open Stance	Right Handed	Crimson Cap	Sinking Splitter
Hank Aaron	Knuckleball Spin	Open Stance	Left Handed	Crimson Cap	Sinking Splitter
Babe Ruth	Changeup Drift	Closed Stance	Right Handed	Crimson Cap	Sinking Splitter
Cal Ripken	Fastball Focus	Wide Stance	Right Handed	Crimson Cap	Sinking Splitter
Aaron Judge	Knuckleball Spin	Open Stance	Right Handed	Navy Cap	Sinking Splitter
Ken Griffey	Knuckleball Spin	High Stance	Left Handed	Crimson Cap	Sinking Splitter
Mookie Betts	Changeup Drift	Wide Stance	Left Handed	Crimson Cap	Low Outside Pitch
Justin Verlander	Knuckleball Spin	Closed Stance	Right Handed	Navy Cap	High Fastball
Jose Altuve	Fastball Focus	High Stance	Left Handed	Crimson Cap	High Fastball

CLUE 1 Addition

To find our first lead, we tally up pitch counts from the bullpen practice log.

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

T																T
2496	2616	7553	8132	7959	3203	3203	6481	7959	6699	5890	4909	7553	4431	6699	4909	2496

											T					
3149	4431	7553	6481	6424	4520	4909	3149	6424	2616	4431	2496	6481	6699	6424	7553	

$1163 + 1333 = \boxed{} \rightarrow \boxed{\text{T}}$

$3485 + 4068 = \boxed{} \rightarrow \boxed{\text{E}}$

$2584 + 5375 = \boxed{} \rightarrow \boxed{\text{I}}$

$1593 + 1023 = \boxed{} \rightarrow \boxed{\text{H}}$

$1533 + 1616 = \boxed{} \rightarrow \boxed{\text{U}}$

$3172 + 4960 = \boxed{} \rightarrow \boxed{\text{V}}$

$2400 + 2031 = \boxed{} \rightarrow \boxed{\text{S}}$

$3135 + 2755 = \boxed{} \rightarrow \boxed{\text{D}}$

$4043 + 2381 = \boxed{} \rightarrow \boxed{\text{C}}$

$1590 + 1613 = \boxed{} \rightarrow \boxed{\text{L}}$

$2824 + 1696 = \boxed{} \rightarrow \boxed{\text{R}}$

$3659 + 3040 = \boxed{} \rightarrow \boxed{\text{N}}$

$1701 + 3208 = \boxed{} \rightarrow \boxed{\text{O}}$

$4350 + 2131 = \boxed{} \rightarrow \boxed{\text{A}}$

Scratch space:

Multiplication facts (1-12)

Checking grandstand seating rows requires multiplying seat counts per section.

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

The diagram consists of two rows of boxes, each with a number underneath. The top row has 14 boxes, and the bottom row has 12 boxes. Some boxes are shaded orange and contain the letter 'T', while others are white.

Top Row:

T							T	T										T	
22	120	4	15	30	15	1	4	50	22	22	120	80	60	66	15	66	7	22	120

Bottom Row:

T								T				
22	120	4	7	80	32	4	9	22	120	99	16	40

$2 \times 11 = \boxed{} \rightarrow \boxed{\text{T}}$

$3 \times 5 = \square \rightarrow \boxed{\mathbf{S}}$

$1 \times 1 = \boxed{} \rightarrow \boxed{\text{P}}$

$1 \times 4 = \boxed{} \rightarrow \boxed{\text{E}}$

$11 \times 9 = \square \rightarrow \mathbf{A}$

$8 \times 10 = \boxed{} \rightarrow \boxed{\text{R}}$

$10 \times 4 = \boxed{} \rightarrow \boxed{\text{D}}$

$6 \times 10 = \boxed{} \rightarrow \boxed{0}$

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

$10 \times 12 = \square \rightarrow \text{H}$

$9 \times 1 = \square \rightarrow \mathbf{F}$

$10 \times 5 = \square \rightarrow \boxed{\text{C}}$

$8 \times 4 = \square \rightarrow \boxed{\mathbf{L}}$

$2 \times 8 = \square \rightarrow \boxed{\mathbf{N}}$

$5 \times 6 = \boxed{} \rightarrow \boxed{\text{U}}$

$11 \times 6 = \square \rightarrow \boxed{W}$

Scratch space:

CLUE 3

Rounding

The stadium radar board only displays pitch speeds rounded to the nearest tens place.

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

T																			
4300	1300	1700	1100	5000	2000	2000	700	5000	110	2300	5000	300	300	1700	300				
															T	T			
1700	1100	1700	7000	30	300	5000	110	9000	5000	110	200	300	70	2000	5000	4300	4300	1700	7000

Round 4,268 to the nearest hundred → **T**

Round 195 to the nearest hundred → **G**

Round 6,721 to the nearest thousand → **R**

Round 1,066 to the nearest hundred → **V**

Round 1,271 to the nearest hundred → **H**

Round 291 to the nearest hundred → **S**

Round 5,141 to the nearest thousand → **I**

Round 71 to the nearest ten → **P**

Round 9,325 to the nearest thousand → **K**

Round 653 to the nearest hundred → **A**

Round 27 to the nearest ten → **Y**

Round 1,696 to the nearest hundred → **E**

Round 112 to the nearest ten → **N**

Round 2,309 to the nearest hundred → **M**

Round 2,354 to the nearest thousand → **L**

Scratch space:

CLUE 4 Word problems

Analyzing the equipment manager logbook requires solving word problems about gear.

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

A strand of  hair turned up at the scene.

There were 100 cleats. 20 were used up. How many cleats are left?

Answer: → **C**

There were 44 fielding gloves. 23 were used up. How many fielding gloves are left?

Answer: $\rightarrow$ **0**

There were 46 helmets. 35 were used up. How many helmets are left?

Answer: → **S**

There were 46 helmets. 15 were used up. How many helmets are left?

Answer: → **N**

Stadium manager lined up 6 rows of 10 bats. How many bats in all?

Answer: → **R**

Stadium manager found 2 bats yesterday and 68 more today. How many bats in all?

Answer: → ☒

Stadium manager found 12 cleats yesterday and 29 more today. How many cleats in all?

Answer: → **M**

Scratch space:

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

Splitting extra baseballs evenly across locker storage bins gives our 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:

$48 \div 4 = \boxed{}$

$12 \div 4 = \boxed{}$

$6 \div 6 = \boxed{}$

$6 \div 3 = \boxed{}$

$132 \div 12 = \boxed{}$

$90 \div 10 = \boxed{}$

$5 \div 1 = \boxed{}$

$66 \div 11 = \boxed{}$

$8 \div 1 = \boxed{}$

$16 \div 4 = \boxed{}$

$20 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain slid a sweeping pitch, then stood in an open stance.
2. The villain floated a gentle changeup, then adopted a closed stance.
3. The villain threw an unpredictable knuckleball, then stood in an open stance.
4. The villain threw an unpredictable knuckleball, then adopted a closed stance.
5. The villain slid a sweeping pitch, then held a high stance.
6. The villain floated a gentle changeup, then settled into a crouch stance.
7. The villain threw an unpredictable knuckleball, then held a high stance.
8. The villain curved a sharp breaker, then settled into a crouch stance.
9. The villain fired a rapid fastball, then adopted a closed stance.
10. The villain curved a sharp breaker, then adopted a closed stance.
11. The villain floated a gentle changeup, then spread into a wide stance.
12. The villain fired a rapid fastball, then spread into a wide stance.

Answer Key

The Case of the Stolen Golden Glove

Culprit: Ken Griffey

Knuckleball Spin · High Stance · Left Handed · Crimson Cap · Sinking Splitter

Trail: Start 21 → Clue 1 19 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A CROUCH STANCE"

$1163 + 1333 = 2496$ (T) · $3485 + 4068 = 7553$ (E) · $2584 + 5375 = 7959$ (I) · $1593 + 1023 = 2616$ (H) · $1533 + 1616 = 3149$ (U) · $3172 + 4960 = 8132$ (V) · $2400 + 2031 = 4431$ (S) · $3135 + 2755 = 5890$ (D) · $4043 + 2381 = 6424$ (C) · $1590 + 1613 = 3203$ (L) · $2824 + 1696 = 4520$ (R) · $3659 + 3040 = 6699$ (N) · $1701 + 3208 = 4909$ (O) · $4350 + 2131 = 6481$ (A)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT THROWS WITH THEIR LEFT HAND"

$2 \times 11 = 22$ (T) · $3 \times 5 = 15$ (S) · $1 \times 1 = 1$ (P) · $1 \times 4 = 4$ (E) · $11 \times 9 = 99$ (A) · $8 \times 10 = 80$ (R) · $10 \times 4 = 40$ (D) · $6 \times 10 = 60$ (O) · $1 \times 7 = 7$ (I) · $10 \times 12 = 120$ (H) · $9 \times 1 = 9$ (F) · $10 \times 5 = 50$ (C) · $8 \times 4 = 32$ (L) · $2 \times 8 = 16$ (N) · $5 \times 6 = 30$ (U) · $11 \times 6 = 66$ (W)

Clue 3 (Rounding): "THE VILLAIN MISSES EVERY SINKING SPLITTER"

Round 4,268 to the nearest hundred = 4300 (T) · Round 195 to the nearest hundred = 200 (G) · Round 6,721 to the nearest thousand = 7000 (R) · Round 1,066 to the nearest hundred = 1100 (V) · Round 1,271 to the nearest hundred = 1300 (H) · Round 291 to the nearest hundred = 300 (S) · Round 5,141 to the nearest thousand = 5000 (I) · Round 71 to the nearest ten = 70 (P) · Round 9,325 to the nearest thousand = 9000 (K) · Round 653 to the nearest hundred = 700 (A) · Round 27 to the nearest ten = 30 (Y) · Round 1,696 to the nearest hundred = 1700 (E) · Round 112 to the nearest ten = 110 (N) · Round 2,309 to the nearest hundred = 2300 (M) · Round 2,354 to the nearest thousand = 2000 (L)

Clue 4 (Word problems): "CRIMSON CAP"

There were 100 cleats. 20 were used up. How many cleats are left? = 80 (C) · There were 44 fielding gloves. 23 were used up. How many fielding gloves are left? = 21 (O) · There were 46 helmets. 35 were used up. How many helmets are left? = 11 (S) · There were 46 helmets. 15 were used up. How many helmets are left? = 31 (N) · Stadium manager lined up 6 rows of 10 bats. How many bats in all? = 60 (R) · Stadium manager found 2 bats yesterday and 68 more today. How many bats in all? = 70 (I) · Stadium manager found 12 cleats yesterday and 29 more today. How many cleats in all? = 41 (M)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Ken Griffey

$48 \div 4 = 12$ · $12 \div 4 = 3$ · $6 \div 6 = 1$ · $6 \div 3 = 2$ · $132 \div 12 = 11$ · $90 \div 10 = 9$ · $5 \div 1 = 5$ · $66 \div 11 = 6$ · $8 \div 1 = 8$ · $16 \div 4 = 4$ · $20 \div 2 = 10$