



The Case of the Missing Golden Bat

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

Detective: _____ Date: _____

Just hours before the championship game at Diamond City Stadium, someone snuck into the trophy room and stole the prized Golden Bat. Detective work is needed to solve the mystery.

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 Stadium Saboteur is _____

Possible suspects

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

NAME	PITCH STYLE	BATTING STANCE	GLOVE HAND	CAP COLOR	DISTRACTION
Pedro Martinez	Slider Break	Open Stance	Right-Handed Glove	Crimson Cap	Chewing Gum
Sandy Koufax	Changeup Drop	High Leg Kick	Left-Handed Glove	Crimson Cap	Chewing Gum
Bob Gibson	Fire Fastball	Open Stance	Left-Handed Glove	Navy Cap	Chewing Gum
Nolan Ryan	Slider Break	Crouch Stance	Left-Handed Glove	Navy Cap	Sunflower Seeds
Cal Ripken	Knuckleball Float	Switch Hitter	Left-Handed Glove	Emerald Cap	Chewing Gum
Babe Ruth	Slider Break	Crouch Stance	Right-Handed Glove	Crimson Cap	Bubble Wrap
Honus Wagner	Fire Fastball	High Leg Kick	Left-Handed Glove	Navy Cap	Sunflower Seeds
Willie Mays	Fire Fastball	Closed Stance	Left-Handed Glove	Emerald Cap	Chewing Gum
Hank Aaron	Changeup Drop	Closed Stance	Right-Handed Glove	Emerald Cap	Sunflower Seeds
Ken Griffey	Curveball Spin	High Leg Kick	Left-Handed Glove	Emerald Cap	Chewing Gum
Ty Cobb	Curveball Spin	Switch Hitter	Right-Handed Glove	Emerald Cap	Chewing Gum
Ted Williams	Curveball Spin	Closed Stance	Left-Handed Glove	Emerald Cap	Chewing Gum
Cy Young	Knuckleball Float	Crouch Stance	Right-Handed Glove	Emerald Cap	Bubble Wrap
Yogi Berra	Slider Break	Open Stance	Right-Handed Glove	Emerald Cap	Bubble Wrap
Rickey Henderson	Fire Fastball	Switch Hitter	Right-Handed Glove	Crimson Cap	Sunflower Seeds
Ernie Banks	Fire Fastball	Switch Hitter	Right-Handed Glove	Crimson Cap	Chewing Gum
Shohei Ohtani	Changeup Drop	Crouch Stance	Left-Handed Glove	Emerald Cap	Chewing Gum
Derek Jeter	Knuckleball Float	High Leg Kick	Left-Handed Glove	Crimson Cap	Sunflower Seeds
Lou Gehrig	Knuckleball Float	Open Stance	Right-Handed Glove	Crimson Cap	Chewing Gum
Jackie Robinson	Fire Fastball	High Leg Kick	Left-Handed Glove	Navy Cap	Chewing Gum
Mike Trout	Slider Break	Closed Stance	Left-Handed Glove	Emerald Cap	Bubble Wrap

CLUE 1 Addition

You check the concession stand receipts to add up total sales and locate a hidden note.

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

T																T
4257	4663	8078	4541	4378	5021	5021	3539	4378	3676	9835	7247	8078	8109	3676	7247	4257

5758	8109	8078	3539	3423	3252	7247	5758	3423	4663	8109	4257	3539	3676	3423	8078	

$2634 + 1623 = \boxed{} \rightarrow \boxed{\text{T}}$

$4252 + 3857 = \boxed{} \rightarrow \boxed{\text{S}}$

$1170 + 2506 = \boxed{} \rightarrow \boxed{\text{N}}$

$2261 + 4986 = \boxed{} \rightarrow \boxed{\text{O}}$

$2806 + 1572 = \boxed{} \rightarrow \boxed{\text{I}}$

$1842 + 3179 = \boxed{} \rightarrow \boxed{\text{L}}$

$1539 + 2000 = \boxed{} \rightarrow \boxed{\text{A}}$

$1279 + 1973 = \boxed{} \rightarrow \boxed{\text{R}}$

$4605 + 3473 = \boxed{} \rightarrow \boxed{\text{E}}$

$1372 + 2051 = \boxed{} \rightarrow \boxed{\text{C}}$

$3415 + 2343 = \boxed{} \rightarrow \boxed{\text{U}}$

$2412 + 2251 = \boxed{} \rightarrow \boxed{\text{H}}$

$2062 + 2479 = \boxed{} \rightarrow \boxed{\text{V}}$

$3263 + 6572 = \boxed{} \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 2
Multiplication facts (1-12)

You review rows of stadium seats to calculate total tickets sold for the championship game.

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

T										T								
33	40	3	11	121	11	96	3	77	33	12	48	22	96	96	3	12	32	
			T															
90	3	63	33	40	32	30	12	3	12	55	90	22	99	3				

$3 \times 11 = \square \rightarrow \text{T}$	$12 \times 8 = \square \rightarrow \text{P}$	$2 \times 6 = \square \rightarrow \text{D}$
$12 \times 4 = \square \rightarrow \text{R}$	$11 \times 1 = \square \rightarrow \text{S}$	$10 \times 3 = \square \rightarrow \text{N}$
$11 \times 2 = \square \rightarrow \text{O}$	$7 \times 11 = \square \rightarrow \text{C}$	$3 \times 1 = \square \rightarrow \text{E}$
$10 \times 9 = \square \rightarrow \text{L}$	$4 \times 8 = \square \rightarrow \text{A}$	$9 \times 7 = \square \rightarrow \text{F}$
$10 \times 4 = \square \rightarrow \text{H}$	$11 \times 11 = \square \rightarrow \text{U}$	$5 \times 11 = \square \rightarrow \text{G}$
$11 \times 9 = \square \rightarrow \text{V}$		

Scratch space:

CLUE 3 Rounding

The radar gun display rounds pitch speeds to the nearest ten to reveal a encoded message.

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

S																			S
3700	2000	1300	110	4300	2300	110	20	130	500	1300	170	50	50	300	70	500	900	3700	
90	230	300	170	9000	230	170	2000	20	130	2000	430	230	2900	20	2300				

Round 3,692 to the nearest hundred → **S**

Round 9,151 to the nearest thousand → **D**

Round 907 to the nearest hundred → **A**

Round 2,251 to the nearest hundred → **Y**

Round 4,310 to the nearest hundred → **K**

Round 1,347 to the nearest hundred → **I**

Round 49 to the nearest ten → **G**

Round 168 to the nearest ten → **N**

Round 434 to the nearest ten → **R**

Round 18 to the nearest ten → **H**

Round 66 to the nearest ten → **M**

Round 261 to the nearest hundred → **U**

Round 1,939 to the nearest thousand → **T**

Round 110 to the nearest ten → **C**

Round 227 to the nearest ten → **O**

Round 86 to the nearest ten → **F**

Round 130 to the nearest ten → **E**

Round 2,891 to the nearest hundred → **P**

Round 507 to the nearest hundred → **W**

Scratch space:

CLUE 4

Word problems

You analyze team statistics from the dugout clipboard to uncover a vital hint.

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

A strand of

E		E								P
46	24	46	22	45	71	40	104	45		

 hair turned up at the scene.

Equipment Manager found 17 batting helmets yesterday and 29 more today. How many batting helmets in all?

Answer: →

E

Equipment Manager lined up 10 rows of 4 scorecards. How many scorecards in all?

Answer: →

D

Equipment Manager found 6 batting helmets yesterday and 65 more today. How many batting helmets in all?

Answer: →

L

Equipment Manager lined up 12 rows of 2 scorecards. How many scorecards in all?

Answer: →

M

Equipment Manager found 20 pine tar rags yesterday and 25 more today. How many pine tar rags in all?

Answer: →

A

Equipment Manager lined up 2 rows of 11 cleat spikes. How many cleat spikes in all?

Answer: →

R

Equipment Manager found 2 baseballs yesterday and 102 more today. How many baseballs in all?

Answer: →

C

Scratch space:

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

You divide the total practice baseballs equally into buckets to find 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:

$44 \div 11 = \square$

$30 \div 10 = \square$

$70 \div 7 = \square$

$55 \div 5 = \square$

$45 \div 9 = \square$

$6 \div 1 = \square$

$6 \div 6 = \square$

$84 \div 7 = \square$

$24 \div 3 = \square$

$84 \div 12 = \square$

$20 \div 10 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain hurled a high speed fastball, then started with a high leg kick.
2. The villain snapped a sudden slider, then started with a high leg kick.
3. The villain hurled a high speed fastball, then set up with a closed stance.
4. The villain floated a tricky knuckleball, then lined up as a switch hitter.
5. The villain snapped a sudden slider, then lined up as a switch hitter.
6. The villain floated a tricky knuckleball, then set up with a closed stance.
7. The villain snapped a sudden slider, then sank down into a crouch stance.
8. The villain snapped a sudden slider, then stepped in with an open stance.
9. The villain threw a sharp breaking curveball, then started with a high leg kick.
10. The villain threw a sharp breaking curveball, then set up with a closed stance.
11. The villain dropped a baffling changeup, then sank down into a crouch stance.
12. The villain hurled a high speed fastball, then stepped in with an open stance.

Answer Key

The Case of the Missing Golden Bat

Culprit: Ken Griffey

Curveball Spin · High Leg Kick · Left-Handed Glove · Emerald Cap · Chewing Gum

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

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

$2634 + 1623 = 4257$ (T) · $4252 + 3857 = 8109$ (S) · $1170 + 2506 = 3676$ (N) · $2261 + 4986 = 7247$ (O) · $2806 + 1572 = 4378$ (I) · $1842 + 3179 = 5021$ (L) · $1539 + 2000 = 3539$ (A) · $1279 + 1973 = 3252$ (R) · $4605 + 3473 = 8078$ (E) · $1372 + 2051 = 3423$ (C) · $3415 + 2343 = 5758$ (U) · $2412 + 2251 = 4663$ (H) · $2062 + 2479 = 4541$ (V) · $3263 + 6572 = 9835$ (D)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT DROPPED A LEFT HANDED GLOVE"

$3 \times 11 = 33$ (T) · $12 \times 8 = 96$ (P) · $2 \times 6 = 12$ (D) · $12 \times 4 = 48$ (R) · $11 \times 1 = 11$ (S) · $10 \times 3 = 30$ (N) · $11 \times 2 = 22$ (O) · $7 \times 11 = 77$ (C) · $3 \times 1 = 3$ (E) · $10 \times 9 = 90$ (L) · $4 \times 8 = 32$ (A) · $9 \times 7 = 63$ (F) · $10 \times 4 = 40$ (H) · $11 \times 11 = 121$ (U) · $5 \times 11 = 55$ (G) · $11 \times 9 = 99$ (V)

Clue 3 (Rounding): "STICKY CHEWING GUM WAS FOUND ON THE TROPHY"

Round 3,692 to the nearest hundred = 3700 (S) · Round 9,151 to the nearest thousand = 9000 (D) · Round 907 to the nearest hundred = 900 (A) · Round 2,251 to the nearest hundred = 2300 (Y) · Round 4,310 to the nearest hundred = 4300 (K) · Round 1,347 to the nearest hundred = 1300 (I) · Round 49 to the nearest ten = 50 (G) · Round 168 to the nearest ten = 170 (N) · Round 434 to the nearest ten = 430 (R) · Round 18 to the nearest ten = 20 (H) · Round 66 to the nearest ten = 70 (M) · Round 261 to the nearest hundred = 300 (U) · Round 1,939 to the nearest thousand = 2000 (T) · Round 110 to the nearest ten = 110 (C) · Round 227 to the nearest ten = 230 (O) · Round 86 to the nearest ten = 90 (F) · Round 130 to the nearest ten = 130 (E) · Round 2,891 to the nearest hundred = 2900 (P) · Round 507 to the nearest hundred = 500 (W)

Clue 4 (Word problems): "EMERALD CAP"

Equipment Manager found 17 batting helmets yesterday and 29 more today. How many batting helmets in all? = 46 (E) · Equipment Manager lined up 10 rows of 4 scorecards. How many scorecards in all? = 40 (D) · Equipment Manager found 6 batting helmets yesterday and 65 more today. How many batting helmets in all? = 71 (L) · Equipment Manager lined up 12 rows of 2 scorecards. How many scorecards in all? = 24 (M) · Equipment Manager found 20 pine tar rags yesterday and 25 more today. How many pine tar rags in all? = 45 (A) · Equipment Manager lined up 2 rows of 11 cleat spikes. How many cleat spikes in all? = 22 (R) · Equipment Manager found 2 baseballs yesterday and 102 more today. How many baseballs in all? = 104 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Ken Griffey

$44 \div 11 = 4$ · $30 \div 10 = 3$ · $70 \div 7 = 10$ · $55 \div 5 = 11$ · $45 \div 9 = 5$ · $6 \div 1 = 6$ · $6 \div 6 = 1$ · $84 \div 7 = 12$ · $24 \div 3 = 8$ · $84 \div 12 = 7$ · $20 \div 10 = 2$