The Great Diamond Park Sabotage

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

Detective: _____ **Date:** _____

Just hours before the championship series begins at Diamond Park, someone tampered with the stadium equipment and stole the official game balls. The head groundskeeper needs your detective skills to review stadium logs, decode field clues, and catch the thief before first pitch.

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 Saboteur is _____

Possible suspects

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

NAME	SIGNATURE PITCH	STOLEN GEAR	THROWING HAND	CAP COLOR	BATTING FLAW
Sandy Koufax	Curveball	Batting Glove	Left Handed	Navy Cap	Outside Curves
Ken Griffey	Fastball	Batting Glove	Left Handed	Gold Cap	High Fastballs
Shohei Ohtani	Changeup	Batting Glove	Left Handed	Red Cap	High Fastballs
Nolan Ryan	Changeup	Batting Glove	Left Handed	Navy Cap	Outside Curves
Babe Ruth	Slider	Rosin Bag	Right Handed	Navy Cap	Outside Curves
Hank Aaron	Fastball	Cleat Cleaner	Left Handed	Red Cap	Low Sliders
Frank Thomas	Knuckleball	Pine Tar Can	Right Handed	Navy Cap	Low Sliders
Cal Ripken	Curveball	Batting Glove	Left Handed	Navy Cap	High Fastballs
Derek Jeter	Curveball	Cleat Cleaner	Right Handed	Red Cap	High Fastballs
Ichiro Suzuki	Knuckleball	Pine Tar Can	Left Handed	Gold Cap	High Fastballs
Greg Maddux	Changeup	Pine Tar Can	Left Handed	Navy Cap	High Fastballs
Mookie Betts	Curveball	Pine Tar Can	Right Handed	Gold Cap	High Fastballs
Ted Williams	Curveball	Cleat Cleaner	Left Handed	Navy Cap	High Fastballs
Pedro Martinez	Knuckleball	Radar Gun	Left Handed	Navy Cap	High Fastballs
Ernie Banks	Slider	Rosin Bag	Left Handed	Gold Cap	Outside Curves
Lou Gehrig	Changeup	Pine Tar Can	Right Handed	Navy Cap	High Fastballs
Stan Musial	Fastball	Rosin Bag	Left Handed	Navy Cap	Low Sliders
Roberto Clemente	Changeup	Radar Gun	Right Handed	Navy Cap	High Fastballs
Ty Cobb	Slider	Rosin Bag	Right Handed	Navy Cap	High Fastballs
Willie Mays	Slider	Pine Tar Can	Right Handed	Gold Cap	Low Sliders
Mike Trout	Slider	Pine Tar Can	Left Handed	Navy Cap	High Fastballs

CLUE 1 Addition

To calculate total gear weight left near the dugout, you sum up the equipment items recorded on the referee sheet.

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



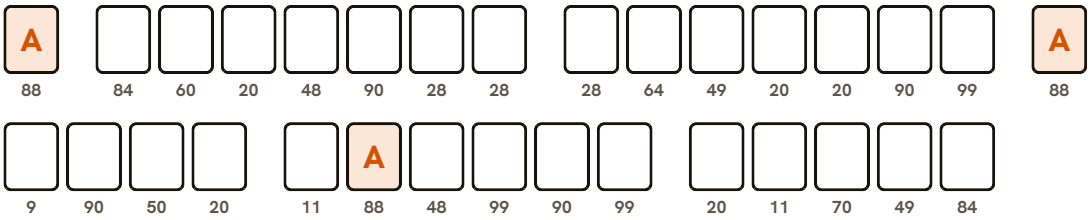
1606 + 2913 = ☐ → T	4420 + 4770 = ☐ → V	2555 + 3912 = ☐ → O
2294 + 2541 = ☐ → N	2014 + 2830 = ☐ → C	1220 + 2343 = ☐ → D
1167 + 1427 = ☐ → A	3413 + 3060 = ☐ → R	3419 + 3472 = ☐ → H
2896 + 1285 = ☐ → I	2791 + 1553 = ☐ → K	2472 + 1755 = ☐ → L
4589 + 2065 = ☐ → E		

Scratch space:

CLUE 2 Multiplication facts (1-12)

> The stadium concessions staff organized seating blocks in equal rows, requiring multiplication to tally total attendees.

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



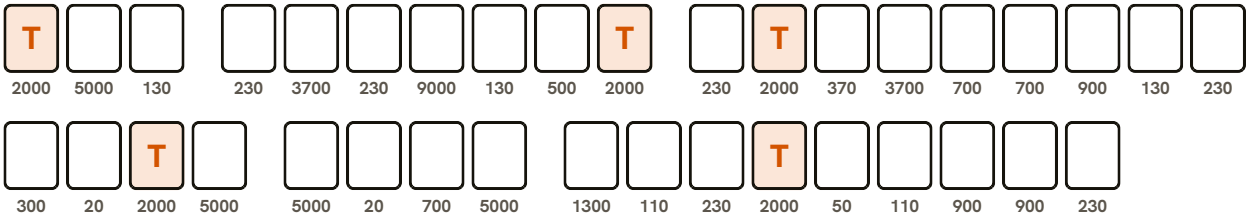
8 × 11 = ☐ → A	9 × 10 = ☐ → E	7 × 7 = ☐ → O
7 × 10 = ☐ → R	6 × 10 = ☐ → I	9 × 1 = ☐ → L
4 × 5 = ☐ → T	11 × 1 = ☐ → H	7 × 12 = ☐ → W
7 × 4 = ☐ → S	8 × 8 = ☐ → P	9 × 11 = ☐ → D
5 × 10 = ☐ → F	8 × 6 = ☐ → N	

Scratch space:

CLUE 3 Rounding

The speed display board on the outfield wall only shows pitch velocity rounded to the nearest tens place.

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



Round 1,636 to the nearest thousand ☐ → T

Round 255 to the nearest hundred ☐ → W

Round 20 to the nearest ten ☐ → I

Round 3,680 to the nearest hundred ☐ → U

Round 131 to the nearest ten ☐ → E

Round 1,334 to the nearest hundred ☐ → F

Round 536 to the nearest hundred ☐ → C

Round 695 to the nearest hundred ☐ → G

Round 913 to the nearest hundred ☐ → L

Round 5,299 to the nearest thousand ☐ → H

Round 368 to the nearest ten ☐ → R

Round 49 to the nearest ten ☐ → B

Round 232 to the nearest ten ☐ → S

Round 109 to the nearest ten ☐ → A

Round 9,451 to the nearest thousand ☐ → P

Scratch space:

CLUE 4 Word problems

Analyzing the stolen ticket inventory requires solving practical pitch and equipment distribution word problems.

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

A strand of

N						
61	108	26	103	48	108	10

hair turned up at the scene.

Batboy found 21 helmets yesterday and 40 more today. How many helmets in all?

Answer: ☐ → **N**

Batboy found 48 base pads yesterday and 55 more today. How many base pads in all?

Answer: ☐ → **Y**

There were 112 cleats. 4 were used up. How many cleats are left?

Answer: ☐ → **A**

Batboy found 29 base pads yesterday and 19 more today. How many base pads in all?

Answer: ☐ → **C**

Batboy lined up 2 rows of 5 helmets. How many helmets in all?

Answer: ☐ → **P**

Batboy found 15 helmets yesterday and 11 more today. How many helmets in all?

Answer: ☐ → **V**

Scratch space:

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

To split the recovered baseball boxes equally among outfield ball boys, you divide the total shipments.

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:

72 ÷ 8 = ☐ | 32 ÷ 4 = ☐ | 20 ÷ 2 = ☐ | 70 ÷ 10 = ☐ | 54 ÷ 9 = ☐

132 ÷ 11 = ☐ | 27 ÷ 9 = ☐ | 15 ÷ 3 = ☐ | 20 ÷ 5 = ☐ | 7 ÷ 7 = ☐

2 ÷ 1 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain threw an unpredictable knuckleball, then took the custom batting glove.
2. The villain launched a ninety mile fastball, then pocketed the chalky rosin bag.
3. The villain snapped a sharp breaking slider, then swiped the team radar gun.
4. The villain snapped a sharp breaking slider, then took the custom batting glove.
5. The villain curved a breaking ball past home plate, then pocketed the chalky rosin bag.
6. The villain fooled the hitter with a changeup, then swiped the team radar gun.
7. The villain launched a ninety mile fastball, then swiped the team radar gun.
8. The villain fooled the hitter with a changeup, then snatched a sticky pine tar can.
9. The villain threw an unpredictable knuckleball, then swiped the team radar gun.
10. The villain snapped a sharp breaking slider, then snatched a sticky pine tar can.
11. The villain curved a breaking ball past home plate, then took the custom batting glove.
12. The villain snapped a sharp breaking slider, then grabbed the electric cleat cleaner.

TEACHER / PARENT

Answer Key

The Great Diamond Park Sabotage

Culprit: Cal Ripken

Curveball · Batting Glove · Left Handed · Navy Cap · High Fastballs

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DID NOT TAKE THE CLEAT CLEANER"

1606 + 2913 = 4519 (T) · 4420 + 4770 = 9190 (V) · 2555 + 3912 = 6467 (O) · 2294 + 2541 = 4835 (N) · 2014 + 2830 = 4844 (C) · 1220 + 2343 = 3563 (D) · 1167 + 1427 = 2594 (A) · 3413 + 3060 = 6473 (R) · 3419 + 3472 = 6891 (H) · 2896 + 1285 = 4181 (I) · 2791 + 1553 = 4344 (K) · 2472 + 1755 = 4227 (L) · 4589 + 2065 = 6654 (E)

Clue 2 (Multiplication facts (1-12)): "A WITNESS SPOTTED A LEFT HANDED THROW"

8 × 11 = 88 (A) · 9 × 10 = 90 (E) · 7 × 7 = 49 (O) · 7 × 10 = 70 (R) · 6 × 10 = 60 (I) · 9 × 1 = 9 (L) · 4 × 5 = 20 (T) · 11 × 1 = 11 (H) · 7 × 12 = 84 (W) · 7 × 4 = 28 (S) · 8 × 8 = 64 (P) · 9 × 11 = 99 (D) · 5 × 10 = 50 (F) · 8 × 6 = 48 (N)

Clue 3 (Rounding): "THE SUSPECT STRUGGLES WITH HIGH FASTBALLS"

Round 1,636 to the nearest thousand = 2000 (T) · Round 255 to the nearest hundred = 300 (W) · Round 20 to the nearest ten = 20 (I) · Round 3,680 to the nearest hundred = 3700 (U) · Round 131 to the nearest ten = 130 (E) · Round 1,334 to the nearest hundred = 1300 (F) · Round 536 to the nearest hundred = 500 (C) · Round 695 to the nearest hundred = 700 (G) · Round 913 to the nearest hundred = 900 (L) · Round 5,299 to the nearest thousand = 5000 (H) · Round 368 to the nearest ten = 370 (R) · Round 49 to the nearest ten = 50 (B) · Round 232 to the nearest ten = 230 (S) · Round 109 to the nearest ten = 110 (A) · Round 9,451 to the nearest thousand = 9000 (P)

Clue 4 (Word problems): "NAVY CAP"

Batboy found 21 helmets yesterday and 40 more today. How many helmets in all? = 61 (N) · Batboy found 48 base pads yesterday and 55 more today. How many base pads in all? = 103 (Y) · There were 112 cleats. 4 were used up. How many cleats are left? = 108 (A) · Batboy found 29 base pads yesterday and 19 more today. How many base pads in all? = 48 (C) · Batboy lined up 2 rows of 5 helmets. How many helmets in all? = 10 (P) · Batboy found 15 helmets yesterday and 11 more today. How many helmets in all? = 26 (V)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Cal Ripken

72 ÷ 8 = 9 · 32 ÷ 4 = 8 · 20 ÷ 2 = 10 · 70 ÷ 10 = 7 · 54 ÷ 9 = 6 · 132 ÷ 11 = 12 · 27 ÷ 9 = 3 · 15 ÷ 3 = 5 · 20 ÷ 5 = 4 · 7 ÷ 7 = 1 · 2 ÷ 1 = 2