



The Case of the Missing Championship Trophy

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

Detective: _____ Date: _____

Just hours before the championship game at Diamond Park, the golden trophy vanished from its center field display case. Examine the evidence and unmask the culprit before the ninth inning!

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 phantom 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	BATTING GEAR	THROWING HAND	HAIRSTYLE	FIELD HAZARD
Max Scherzer	changeup	customized visor	throws right handed	long ponytail	broken dugout cleats
Hank Aaron	wicked slider	weighted bat ring	throws right handed	curly mop	soggy baseballs
Aaron Judge	wicked slider	padded batting gloves	throws right handed	shaved head	soggy baseballs
Mookie Betts	knuckleball	elbow guard	throws right handed	shaved head	broken dugout cleats
Babe Ruth	100mph fastball	elbow guard	throws right handed	curly mop	broken dugout cleats
Ted Williams	100mph fastball	pine tar bat	throws right handed	shaved head	soggy baseballs
Freddie Freeman	changeup	elbow guard	throws left handed	long ponytail	blinding stadium lights
Sandy Koufax	wicked slider	padded batting gloves	throws right handed	shaved head	broken dugout cleats
Roberto Clemente	100mph fastball	customized visor	throws right handed	shaved head	soggy baseballs
Cal Ripken	knuckleball	padded batting gloves	throws left handed	long ponytail	soggy baseballs
Shohei Ohtani	knuckleball	weighted bat ring	throws right handed	long ponytail	broken dugout cleats
Mike Trout	knuckleball	customized visor	throws right handed	shaved head	soggy baseballs
Justin Verlander	knuckleball	weighted bat ring	throws left handed	long ponytail	soggy baseballs
Willie Mays	changeup	padded batting gloves	throws right handed	shaved head	blinding stadium lights
Fernando Tatis	curveball	customized visor	throws right handed	shaved head	blinding stadium lights
Nolan Ryan	changeup	elbow guard	throws right handed	shaved head	blinding stadium lights
Lou Gehrig	knuckleball	elbow guard	throws left handed	shaved head	soggy baseballs
Derek Jeter	wicked slider	pine tar bat	throws right handed	shaved head	soggy baseballs
Ken Griffey Jr	knuckleball	pine tar bat	throws right handed	curly mop	soggy baseballs
Jackie Robinson	wicked slider	elbow guard	throws left handed	long ponytail	soggy baseballs
Bryce Harper	changeup	pine tar bat	throws right handed	shaved head	broken dugout cleats

CLUE 1 Addition

The head groundskeeper tallied up the total base hits recorded across all innings to pinpoint where the mystery began.

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

T																T
8167	8687	3141	7131	3594	5233	5233	8117	3594	3247	3675	9269	3141	9784	3247	9269	8167
					T	T										
4501	9784	3141	5864	8117	8167	8167	3594	3247	8910	8910	5233	9269	7131	3141	9784	

$4064 + 4103 = \square \rightarrow$ T	$3144 + 4973 = \square \rightarrow$ A	$1894 + 1700 = \square \rightarrow$ I
$1881 + 1366 = \square \rightarrow$ N	$1234 + 1907 = \square \rightarrow$ E	$1680 + 1995 = \square \rightarrow$ D
$1809 + 4055 = \square \rightarrow$ B	$5732 + 3537 = \square \rightarrow$ O	$1515 + 2986 = \square \rightarrow$ U
$4749 + 2382 = \square \rightarrow$ V	$6642 + 3142 = \square \rightarrow$ S	$3572 + 5115 = \square \rightarrow$ H
$3205 + 2028 = \square \rightarrow$ L	$5469 + 3441 = \square \rightarrow$ G	

Scratch space:

CLUE 2
Multiplication facts (1-12)

By calculating the full grid of stadium seating sections and ticket rows, the security team zeroed in on a key clue.

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

T						T						T					
54	9	14	18	64	11	54	40	9	14	81	54	9	81	45	88	18	
		T		T									T				
88	22	54	9	54	9	14	22	81	81	22	21	9	54	9	11	64	4

$9 \times 6 = \square \rightarrow \boxed{\text{T}}$

$9 \times 9 = \square \rightarrow \boxed{\text{R}}$

$8 \times 8 = \square \rightarrow \boxed{\text{N}}$

$8 \times 11 = \square \rightarrow \boxed{\text{W}}$

$1 \times 9 = \square \rightarrow \boxed{\text{H}}$

$3 \times 7 = \square \rightarrow \boxed{\text{G}}$

$2 \times 11 = \square \rightarrow \boxed{\text{I}}$

$1 \times 11 = \square \rightarrow \boxed{\text{A}}$

$9 \times 2 = \square \rightarrow \boxed{\text{S}}$

$10 \times 4 = \square \rightarrow \boxed{\text{C}}$

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

$4 \times 1 = \square \rightarrow \boxed{\text{D}}$

$7 \times 2 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 3 Rounding

The digital radar gun on the outfield wall only displays speed estimates rounded to the nearest ten miles per hour.

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

S							S						S	S					
3700	170	2300	2300	4300	1700	1300	3700	20	1700	1300	2900	2900	3700	3700	2900	170	130	20	900
							S		S										
900	170	130	5000		200	370	20	3700	30	3700	230	20	300	200					

Round 3,714 to the nearest hundred → **S**

Round 2,317 to the nearest hundred → **G**

Round 4,297 to the nearest hundred → **Y**

Round 1,662 to the nearest hundred → **B**

Round 169 to the nearest ten → **O**

Round 1,310 to the nearest hundred → **A**

Round 5,330 to the nearest thousand → **N**

Round 127 to the nearest ten → **W**

Round 343 to the nearest hundred → **C**

Round 158 to the nearest hundred → **T**

Round 2,899 to the nearest hundred → **L**

Round 366 to the nearest ten → **H**

Round 926 to the nearest hundred → **D**

Round 233 to the nearest ten → **P**

Round 18 to the nearest ten → **E**

Round 26 to the nearest ten → **U**

Scratch space:

CLUE 4

Word problems

Reviewing the equipment manager logbooks revealed detailed breakdowns of bat and glove inventory numbers.

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

A strand of S hair turned up at the scene.

96 104 45 102 52 111 104 52 45 111

Equipment manager lined up 12 rows of 8 leather baseballs. How many leather baseballs in all?

Answer: → S

There were 67 sun glare stickers. 15 were used up. How many sun glare stickers are left?

Answer: → E

Equipment manager lined up 5 rows of 9 sun glare stickers. How many sun glare stickers in all?

Answer: → A

There were 125 pitching rosin bags. 21 were used up. How many pitching rosin bags are left?

Answer: → H

There were 146 pitching rosin bags. 35 were used up. How many pitching rosin bags are left?

Answer: → D

There were 127 sun glare stickers. 25 were used up. How many sun glare stickers are left?

Answer: → V

Scratch space:

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

Dividing the remaining game balls equally among the bullpen pitchers uncovered a hidden note tucked inside a bucket.

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:

$88 \div 8 = \boxed{}$

$80 \div 8 = \boxed{}$

$7 \div 1 = \boxed{}$

$10 \div 2 = \boxed{}$

$36 \div 3 = \boxed{}$

$32 \div 4 = \boxed{}$

$48 \div 12 = \boxed{}$

$30 \div 10 = \boxed{}$

$12 \div 2 = \boxed{}$

$2 \div 2 = \boxed{}$

$6 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain threw a knuckleball, then swung a weighted bat ring.
2. The villain tossed a slow changeup, then adjusted a custom visor.
3. The villain hurled a fast fastball, then swung a weighted bat ring.
4. The villain tossed a slow changeup, then put on padded batting gloves.
5. The villain snapped a wicked slider, then adjusted a custom visor.
6. The villain dropped a curveball, then swung a weighted bat ring.
7. The villain hurled a fast fastball, then adjusted a custom visor.
8. The villain snapped a wicked slider, then strapped on an elbow guard.
9. The villain snapped a wicked slider, then swung a pine tar bat.
10. The villain threw a knuckleball, then adjusted a custom visor.
11. The villain hurled a fast fastball, then swung a pine tar bat.
12. The villain snapped a wicked slider, then swung a weighted bat ring.

Answer Key

The Case of the Missing Championship Trophy

Culprit: Derek Jeter

wicked slider · pine tar bat · throws right handed · shaved head · soggy baseballs

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE BATTING GLOVES"

$4064 + 4103 = 8167$ (T) · $3144 + 4973 = 8117$ (A) · $1894 + 1700 = 3594$ (I) · $1881 + 1366 = 3247$ (N) · $1234 + 1907 = 3141$ (E) · $1680 + 1995 = 3675$ (D) · $1809 + 4055 = 5864$ (B) · $5732 + 3537 = 9269$ (O) · $1515 + 2986 = 4501$ (U) · $4749 + 2382 = 7131$ (V) · $6642 + 3142 = 9784$ (S) · $3572 + 5115 = 8687$ (H) · $3205 + 2028 = 5233$ (L) · $5469 + 3441 = 8910$ (G)

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

$9 \times 6 = 54$ (T) · $9 \times 9 = 81$ (R) · $8 \times 8 = 64$ (N) · $8 \times 11 = 88$ (W) · $1 \times 9 = 9$ (H) · $3 \times 7 = 21$ (G) · $2 \times 11 = 22$ (I) · $1 \times 11 = 11$ (A) · $9 \times 2 = 18$ (S) · $10 \times 4 = 40$ (C) · $9 \times 5 = 45$ (O) · $4 \times 1 = 4$ (D) · $7 \times 2 = 14$ (E)

Clue 3 (Rounding): "SOGGY BASEBALLS SLOWED DOWN THE SUSPECT"

Round 3,714 to the nearest hundred = 3700 (S) · Round 2,317 to the nearest hundred = 2300 (G) · Round 4,297 to the nearest hundred = 4300 (Y) · Round 1,662 to the nearest hundred = 1700 (B) · Round 169 to the nearest ten = 170 (O) · Round 1,310 to the nearest hundred = 1300 (A) · Round 5,330 to the nearest thousand = 5000 (N) · Round 127 to the nearest ten = 130 (W) · Round 343 to the nearest hundred = 300 (C) · Round 158 to the nearest hundred = 200 (T) · Round 2,899 to the nearest hundred = 2900 (L) · Round 366 to the nearest ten = 370 (H) · Round 926 to the nearest hundred = 900 (D) · Round 233 to the nearest ten = 230 (P) · Round 18 to the nearest ten = 20 (E) · Round 26 to the nearest ten = 30 (U)

Clue 4 (Word problems): "SHAVED HEAD"

Equipment manager lined up 12 rows of 8 leather baseballs. How many leather baseballs in all? = 96 (S) · There were 67 sun glare stickers. 15 were used up. How many sun glare stickers are left? = 52 (E) · Equipment manager lined up 5 rows of 9 sun glare stickers. How many sun glare stickers in all? = 45 (A) · There were 125 pitching rosin bags. 21 were used up. How many pitching rosin bags are left? = 104 (H) · There were 146 pitching rosin bags. 35 were used up. How many pitching rosin bags are left? = 111 (D) · There were 127 sun glare stickers. 25 were used up. How many sun glare stickers are left? = 102 (V)

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

$88 \div 8 = 11$ · $80 \div 8 = 10$ · $7 \div 1 = 7$ · $10 \div 2 = 5$ · $36 \div 3 = 12$ · $32 \div 4 = 8$ · $48 \div 12 = 4$ · $30 \div 10 = 3$ · $12 \div 2 = 6$ · $2 \div 2 = 1$ · $6 \div 3 = 2$