



The Mystery of the Missing Championship Trophy

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 5-6

Detective: _____ Date: _____

Just hours before the championship game, someone broke into the clubhouse trophy room and swapped the grand trophy with an empty bubblegum bucket! The head groundskeeper needs your detective skills to analyze the physical evidence around home plate and clear the dugout.

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 TYPE	SPECIAL GEAR	GLOVE HAND	HAIR COLOR	DISTRACTION
Mickey Mantle	sneaky changeup	pine tar bat	right handed glove	blonde hair	bright lights
Willie Mays	sneaky changeup	pine tar bat	right handed glove	black hair	siren noise
Cal Ripken	breaking curveball	sun glare visor	left handed glove	black hair	siren noise
Babe Ruth	dancing knuckleball	sun glare visor	right handed glove	blonde hair	bright lights
Hank Aaron	sharp slider	weighted donut	right handed glove	red hair	squeaky shoes
Stan Musial	sharp slider	elbow guard	left handed glove	black hair	squeaky shoes
Honus Wagner	sharp slider	weighted donut	left handed glove	blonde hair	siren noise
Mike Trout	sneaky changeup	metal cleats	left handed glove	black hair	siren noise
Lou Gehrig	blazing fastball	metal cleats	right handed glove	red hair	squeaky shoes
Ted Williams	dancing knuckleball	elbow guard	left handed glove	black hair	siren noise
Ty Cobb	breaking curveball	pine tar bat	left handed glove	red hair	siren noise
Pedro Martinez	dancing knuckleball	pine tar bat	left handed glove	black hair	siren noise
Derek Jeter	breaking curveball	elbow guard	right handed glove	red hair	siren noise
Greg Maddux	sneaky changeup	metal cleats	left handed glove	blonde hair	bright lights
Ernie Banks	blazing fastball	pine tar bat	left handed glove	black hair	siren noise
Ichiro Suzuki	sharp slider	weighted donut	right handed glove	black hair	siren noise
Yogi Berra	blazing fastball	weighted donut	right handed glove	black hair	siren noise
Nolan Ryan	blazing fastball	pine tar bat	right handed glove	red hair	siren noise
Shohei Ohtani	sneaky changeup	sun glare visor	right handed glove	blonde hair	bright lights
Roberto Clemente	sharp slider	weighted donut	left handed glove	black hair	bright lights
Jackie Robinson	dancing knuckleball	metal cleats	right handed glove	black hair	siren noise

CLUE 1
Fractions of a number

The head groundskeeper calculated that three fourths of the game balls were missing from the locker.

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

T																T
19	12	13	25	4	22	22	2	4	36	16	3	13	29	36	3	19
23	29	13	2	36	13	22	15	3	5	32	23	2	37	16		

$2/8 \text{ of } 76 = \square \rightarrow \text{T}$

$2/6 \text{ of } 12 = \square \rightarrow \text{I}$

$4/8 \text{ of } 74 = \square \rightarrow \text{R}$

$2/10 \text{ of } 125 = \square \rightarrow \text{V}$

$3/6 \text{ of } 58 = \square \rightarrow \text{S}$

$1/8 \text{ of } 96 = \square \rightarrow \text{H}$

$6/8 \text{ of } 20 = \square \rightarrow \text{B}$

$3/6 \text{ of } 64 = \square \rightarrow \text{G}$

$1/3 \text{ of } 6 = \square \rightarrow \text{A}$

$1/6 \text{ of } 18 = \square \rightarrow \text{O}$

$1/2 \text{ of } 10 = \square \rightarrow \text{W}$

$1/8 \text{ of } 176 = \square \rightarrow \text{L}$

$2/4 \text{ of } 32 = \square \rightarrow \text{D}$

$2/10 \text{ of } 65 = \square \rightarrow \text{E}$

$2/10 \text{ of } 115 = \square \rightarrow \text{U}$

$3/6 \text{ of } 72 = \square \rightarrow \text{N}$

Scratch space:

CLUE 2
Order of operations

To decrypt the locked bullpen safe, detectives followed the playbook order of operations precisely.

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

L																
65	36	69	51	61	68	7	12	36	12	47	45	19	7	51	20	7
70	68	51	51	19	7	23	27	68	23	36						

$8 \times 10 - 15 = \boxed{} \rightarrow \boxed{\text{L}}$

$11 \times 3 - 10 = \boxed{} \rightarrow \boxed{\text{G}}$

$5 \times 7 - 16 = \boxed{} \rightarrow \boxed{\text{I}}$

$6 \times 5 - 23 = \boxed{} \rightarrow \boxed{\text{N}}$

$9 \times 5 - 18 = \boxed{} \rightarrow \boxed{\text{C}}$

$12 \times 6 - 27 = \boxed{} \rightarrow \boxed{\text{R}}$

$5 \times 11 - 4 = \boxed{} \rightarrow \boxed{\text{T}}$

$11 \times 5 - 19 = \boxed{} \rightarrow \boxed{\text{E}}$

$45 + 4 \times 4 = \boxed{} \rightarrow \boxed{\text{H}}$

$60 + 2 \times 5 = \boxed{} \rightarrow \boxed{\text{B}}$

$37 + 4 \times 8 = \boxed{} \rightarrow \boxed{\text{F}}$

$12 + 5 \times 7 = \boxed{} \rightarrow \boxed{\text{P}}$

$4 + 4 \times 2 = \boxed{} \rightarrow \boxed{\text{D}}$

$3 \times 12 - 16 = \boxed{} \rightarrow \boxed{\text{O}}$

$40 + 7 \times 4 = \boxed{} \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

The manager reviewed the dugout rack, multiplying six rows of helmets by five columns to tally inventory.

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

S								S					S		
36	99	16	11	66	66	30	99	36	11	22	54	44	36	11	42
42	16	30	7	7	11	42	8	54	12	12					

$3 \times 12 = \square \rightarrow \boxed{\text{S}}$

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

$9 \times 11 = \square \rightarrow \boxed{\text{I}}$

$6 \times 7 = \square \rightarrow \boxed{\text{D}}$

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

$5 \times 6 = \square \rightarrow \boxed{\text{O}}$

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

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

$8 \times 1 = \square \rightarrow \boxed{\text{B}}$

$2 \times 6 = \square \rightarrow \boxed{\text{L}}$

$11 \times 6 = \square \rightarrow \boxed{\text{N}}$

$8 \times 2 = \square \rightarrow \boxed{\text{R}}$

$4 \times 11 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 4 Rounding

A radar gun on the scoreboard rounded the mystery pitch velocity to the nearest ten to generate a code.

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

B																	
30	20	1100	2300	90	2300	7000	290	20	110	2300	1100	7000	2000	370	3000	130	430

370	4300	20	5000	4300	3000	110	3000	290	1100	1300

Round 33 to the nearest ten → **B**

Round 1,134 to the nearest hundred → **A**

Round 23 to the nearest ten → **L**

Round 1,259 to the nearest hundred → **P**

Round 2,316 to the nearest hundred → **C**

Round 1,807 to the nearest thousand → **G**

Round 7,246 to the nearest thousand → **U**

Round 92 to the nearest ten → **K**

Round 3,326 to the nearest thousand → **T**

Round 4,823 to the nearest thousand → **M**

Round 368 to the nearest ten → **H**

Round 133 to the nearest ten → **I**

Round 426 to the nearest ten → **N**

Round 114 to the nearest ten → **S**

Round 289 to the nearest ten → **R**

Round 4,282 to the nearest hundred → **E**

Scratch space:

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

The batboy divided the remaining custom cleats equally among three team trunks to isolate a suspect 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:

$5 \div 5 = \boxed{}$

$30 \div 6 = \boxed{}$

$48 \div 4 = \boxed{}$

$4 \div 1 = \boxed{}$

$9 \div 3 = \boxed{}$

$36 \div 6 = \boxed{}$

$72 \div 8 = \boxed{}$

$90 \div 9 = \boxed{}$

$84 \div 12 = \boxed{}$

$22 \div 2 = \boxed{}$

$48 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain threw a blazing fastball, then swung a pine tar bat.
2. The villain curved a breaking ball, then flipped down a sun glare visor.
3. The villain curved a breaking ball, then scuffed dirt with metal cleats.
4. The villain slipped in a changeup, then strapped on an elbow guard.
5. The villain danced a knuckleball, then swung a pine tar bat.
6. The villain curved a breaking ball, then swung a weighted donut.
7. The villain slid a sharp slider, then swung a pine tar bat.
8. The villain slipped in a changeup, then swung a pine tar bat.
9. The villain danced a knuckleball, then flipped down a sun glare visor.
10. The villain curved a breaking ball, then strapped on an elbow guard.
11. The villain slipped in a changeup, then flipped down a sun glare visor.
12. The villain slipped in a changeup, then scuffed dirt with metal cleats.

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Cal Ripken

breaking curveball · sun glare visor · left handed glove · black hair · siren noise

Trail: Start 21 → Clue 1 18 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE AN ELBOW GUARD"

$\frac{2}{8}$ of 76 = 19 (T) · $\frac{2}{6}$ of 12 = 4 (I) · $\frac{4}{8}$ of 74 = 37 (R) · $\frac{2}{10}$ of 125 = 25 (V) · $\frac{3}{6}$ of 58 = 29 (S) · $\frac{1}{8}$ of 96 = 12 (H) · $\frac{6}{8}$ of 20 = 15 (B) · $\frac{3}{6}$ of 64 = 32 (G) · $\frac{1}{3}$ of 6 = 2 (A) · $\frac{1}{6}$ of 18 = 3 (O) · $\frac{1}{2}$ of 10 = 5 (W) · $\frac{1}{8}$ of 176 = 22 (L) · $\frac{2}{4}$ of 32 = 16 (D) · $\frac{2}{10}$ of 65 = 13 (E) · $\frac{2}{10}$ of 115 = 23 (U) · $\frac{3}{6}$ of 72 = 36 (N)

Clue 2 (Order of operations): "LEFT HANDED PRINT ON BATTING CAGE"

$8 \times 10 - 15 = 65$ (L) · $11 \times 3 - 10 = 23$ (G) · $5 \times 7 - 16 = 19$ (I) · $6 \times 5 - 23 = 7$ (N) · $9 \times 5 - 18 = 27$ (C) · $12 \times 6 - 27 = 45$ (R) · $5 \times 11 - 4 = 51$ (T) · $11 \times 5 - 19 = 36$ (E) · $45 + 4 \times 4 = 61$ (H) · $60 + 2 \times 5 = 70$ (B) · $37 + 4 \times 8 = 69$ (F) · $12 + 5 \times 7 = 47$ (P) · $4 + 4 \times 2 = 12$ (D) · $3 \times 12 - 16 = 20$ (O) · $40 + 7 \times 4 = 68$ (A)

Clue 3 (Multiplication facts (1-12)): "SIREN NOISE CAUSED DROPPED BALL"

$3 \times 12 = 36$ (S) · $1 \times 7 = 7$ (P) · $9 \times 11 = 99$ (I) · $6 \times 7 = 42$ (D) · $2 \times 11 = 22$ (C) · $5 \times 6 = 30$ (O) · $1 \times 11 = 11$ (E) · $9 \times 6 = 54$ (A) · $8 \times 1 = 8$ (B) · $2 \times 6 = 12$ (L) · $11 \times 6 = 66$ (N) · $8 \times 2 = 16$ (R) · $4 \times 11 = 44$ (U)

Clue 4 (Rounding): "BLACK CURLS CAUGHT IN HELMET STRAP"

Round 33 to the nearest ten = 30 (B) · Round 1,134 to the nearest hundred = 1100 (A) · Round 23 to the nearest ten = 20 (L) · Round 1,259 to the nearest hundred = 1300 (P) · Round 2,316 to the nearest hundred = 2300 (C) · Round 1,807 to the nearest thousand = 2000 (G) · Round 7,246 to the nearest thousand = 7000 (U) · Round 92 to the nearest ten = 90 (K) · Round 3,326 to the nearest thousand = 3000 (T) · Round 4,823 to the nearest thousand = 5000 (M) · Round 368 to the nearest ten = 370 (H) · Round 133 to the nearest ten = 130 (I) · Round 426 to the nearest ten = 430 (N) · Round 114 to the nearest ten = 110 (S) · Round 289 to the nearest ten = 290 (R) · Round 4,282 to the nearest hundred = 4300 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Cal Ripken

$5 \div 5 = 1$ · $30 \div 6 = 5$ · $48 \div 4 = 12$ · $4 \div 1 = 4$ · $9 \div 3 = 3$ · $36 \div 6 = 6$ · $72 \div 8 = 9$ · $90 \div 9 = 10$ · $84 \div 12 = 7$ · $22 \div 2 = 11$ · $48 \div 6 = 8$