



The Championship Trophy Caper

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

Detective: _____ **Date:** _____

Right before the championship pennant game, someone snuck into the stadium vault and swapped the silver trophy with a foam replica. The stadium groundskeeper found a trail of rosin dust and footprints near home plate. Match the clues to identify the Stadium Phantom before the final inning begins.

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	PITCH STYLE	SPECIALTY PLAY	THROWING HAND	CAP COLOR	PITCH WEAKNESS
Nolan Ryan	Sinker Drop	Bunt Pops	Left Handed Thrower	Gold Cap	High Fastball
Sandy Koufax	Steal Signal	Pinch Running	Right Handed Thrower	Gold Cap	High Fastball
Jackie Robinson	Steal Signal	Relay Throwing	Left Handed Thrower	Gold Cap	Changeup Drop
Babe Ruth	Knuckleball Spike	Bat Flipping	Left Handed Thrower	Gold Cap	High Fastball
Lou Gehrig	Knuckleball Spike	Pitch Stealing	Left Handed Thrower	Gold Cap	High Fastball
Greg Maddux	Cutter Blast	Bunt Pops	Right Handed Thrower	Red Cap	Changeup Drop
Bob Gibson	Cutter Blast	Bunt Pops	Right Handed Thrower	Gold Cap	Changeup Drop
Ken Griffey	Sinker Drop	Bunt Pops	Left Handed Thrower	Blue Cap	Inside Curve
Derek Jeter	Knuckleball Spike	Bat Flipping	Right Handed Thrower	Blue Cap	High Fastball
Ted Williams	Sinker Drop	Bunt Pops	Left Handed Thrower	Gold Cap	Inside Curve
Roberto Clemente	Cutter Blast	Relay Throwing	Right Handed Thrower	Blue Cap	High Fastball
Pedro Martinez	Knuckleball Spike	Pitch Stealing	Right Handed Thrower	Red Cap	High Fastball
Yogi Berra	Knuckleball Spike	Pitch Stealing	Right Handed Thrower	Blue Cap	High Fastball
Cy Young	Cutter Blast	Bat Flipping	Right Handed Thrower	Blue Cap	Inside Curve
Stan Musial	Sinker Drop	Pinch Running	Left Handed Thrower	Gold Cap	High Fastball
Ty Cobb	Knuckleball Spike	Bunt Pops	Left Handed Thrower	Red Cap	Inside Curve
Hank Aaron	Cutter Blast	Relay Throwing	Left Handed Thrower	Gold Cap	High Fastball
Shohei Ohtani	Cutter Blast	Pitch Stealing	Left Handed Thrower	Blue Cap	High Fastball
Honus Wagner	Sinker Drop	Bat Flipping	Right Handed Thrower	Gold Cap	Inside Curve
Mookie Betts	Cutter Blast	Pitch Stealing	Right Handed Thrower	Red Cap	High Fastball
Cal Ripken	Sinker Drop	Pinch Running	Left Handed Thrower	Blue Cap	High Fastball

CLUE 1 Addition

The head umpire added up the official game balls collected from every tunnel.

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

Diagram illustrating the distribution of the letter 'T' across 18 words. The words are arranged in two rows. In the top row, 'T' is the first letter in '7486', the eighth letter in '7486', and the last letter in '7486'. In the bottom row, 'T' is the fourth letter in '7486'.

$$4853 + 2633 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$3022 + 1998 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

$$2352 + 2654 = \boxed{} \rightarrow \boxed{\mathbf{U}}$$

$$4200 + 2224 = \boxed{} \rightarrow \boxed{\text{H}}$$

$1060 + 1259 = \boxed{} \rightarrow \boxed{\text{E}}$

$$1769 + 1282 = \boxed{} \rightarrow \boxed{\mathbf{0}}$$

$$4488 + 5408 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$6263 + 3023 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1116 + 1624 = \boxed{} \rightarrow \boxed{\mathbf{D}}$$

$$2310 + 1703 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2742 + 1986 = \boxed{} \rightarrow \boxed{\text{C}}$$

Scratch space:

CLUE 2

Multiplication facts (1-12)

The grounds crew counted total light bulbs across the stadium towers in even rows.

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

T					T												T
77	44	88	5	60	77	28	88	108	108	108	80	5	80	90	88	9	77

						T						
44	80	28	132	88	132	77	44	120	54	5	88	120

$11 \times 7 =$

→

T

$11 \times 12 =$

→

D

$1 \times 5 =$

→

W

$11 \times 4 =$

→

H

$12 \times 9 =$

→

S

$1 \times 9 =$

→

F

$10 \times 9 =$

→

L

$10 \times 8 =$

→

A

$11 \times 8 =$

→

E

$10 \times 12 =$

→

R

$6 \times 10 =$

→

I

$9 \times 6 =$

→

O

$7 \times 4 =$

→

N

Scratch space:

CLUE 3
Rounding

The radar gun display rounded the pitch speed to the nearest mile per hour.

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

T									T									T	
900	170	370	4300	50	4300	2300	370	290	900	4300	700	50	200	500	30	1700	900	370	

	T								T					
1700	900	1700	170	9000	500	170	7000	1700	4300	900	90	1700	30	30

Round 866 to the nearest hundred → **T**

Round 177 to the nearest hundred → **N**

Round 30 to the nearest ten → **L**

Round 6,533 to the nearest thousand → **F**

Round 1,736 to the nearest hundred → **A**

Round 663 to the nearest hundred → **W**

Round 90 to the nearest ten → **B**

Round 496 to the nearest hundred → **G**

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

Round 367 to the nearest ten → **E**

Round 9,012 to the nearest thousand → **I**

Round 166 to the nearest ten → **H**

Round 2,267 to the nearest hundred → **P**

Round 52 to the nearest ten → **U**

Round 287 to the nearest ten → **C**

Scratch space:

CLUE 4

Word problems

The equipment room log detailed inventory movements before game time.

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

A strand of

G						
66	112	50	36	97	71	104

 hair turned up at the scene.

Equipment manager lined up 11 rows of 6 pine tar rags. How many pine tar rags in all?

Answer: →

G

Equipment manager lined up 5 rows of 10 baseballs. How many baseballs in all?

Answer: →

L

There were 121 pine tar rags. 24 were used up. How many pine tar rags are left?

Answer: →

C

Equipment manager found 23 baseballs yesterday and 81 more today. How many baseballs in all?

Answer: →

P

Equipment manager found 23 pine tar rags yesterday and 48 more today. How many pine tar rags in all?

Answer: →

A

Equipment manager found 91 batting gloves yesterday and 21 more today. How many batting gloves in all?

Answer: →

O

Equipment manager lined up 6 rows of 6 pine tar rags. How many pine tar rags in all?

Answer: →

D

Scratch space:

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

The team trainer divided energy gels equally among the bullpen pitchers.

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:

$96 \div 8 = \boxed{}$

$36 \div 4 = \boxed{}$

$80 \div 10 = \boxed{}$

$4 \div 4 = \boxed{}$

$18 \div 6 = \boxed{}$

$6 \div 3 = \boxed{}$

$24 \div 4 = \boxed{}$

$35 \div 7 = \boxed{}$

$49 \div 7 = \boxed{}$

$40 \div 10 = \boxed{}$

$99 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain snapped a cutter blast, then dropped soft bunt pops.
2. The villain delivered a sinker drop, then dropped soft bunt pops.
3. The villain launched a knuckleball spike, then took off pinch running.
4. The villain delivered a sinker drop, then executed relay throwing.
5. The villain flashed a steal signal, then showed off bat flipping.
6. The villain flashed a steal signal, then executed relay throwing.
7. The villain cranked a power drive, then practiced pitch stealing.
8. The villain snapped a cutter blast, then executed relay throwing.
9. The villain launched a knuckleball spike, then showed off bat flipping.
10. The villain delivered a sinker drop, then took off pinch running.
11. The villain cranked a power drive, then took off pinch running.
12. The villain launched a knuckleball spike, then practiced pitch stealing.

Answer Key

The Championship Trophy Caper

Culprit: Stan Musial

Sinker Drop · Pinch Running · Left Handed Thrower · Gold Cap · High Fastball

Trail: Start 21 → Clue 1 15 → Clue 2 7 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT USE BUNT POPS"

$4853 + 2633 = 7486$ (T) · $3022 + 1998 = 5020$ (B) · $2352 + 2654 = 5006$ (U) · $4200 + 2224 = 6424$ (H) · $1060 + 1259 = 2319$ (E) · $1769 + 1282 = 3051$ (O) · $4488 + 5408 = 9896$ (P) · $6263 + 3023 = 9286$ (N) · $1116 + 1624 = 2740$ (D) · $2310 + 1703 = 4013$ (S) · $2742 + 1986 = 4728$ (C)

Clue 2 (Multiplication facts (1-12)): "THE WITNESS SAW A LEFT HANDED THROWER"

$11 \times 7 = 77$ (T) · $11 \times 12 = 132$ (D) · $1 \times 5 = 5$ (W) · $11 \times 4 = 44$ (H) · $12 \times 9 = 108$ (S) · $1 \times 9 = 9$ (F) · $10 \times 9 = 90$ (L) · $10 \times 8 = 80$ (A) · $11 \times 8 = 88$ (E) · $10 \times 12 = 120$ (R) · $6 \times 10 = 60$ (I) · $9 \times 6 = 54$ (O) · $7 \times 4 = 28$ (N)

Clue 3 (Rounding): "THE SUSPECT SWUNG LATE AT A HIGH FASTBALL"

Round 866 to the nearest hundred = 900 (T) · Round 177 to the nearest hundred = 200 (N) · Round 30 to the nearest ten = 30 (L) · Round 6,533 to the nearest thousand = 7000 (F) · Round 1,736 to the nearest hundred = 1700 (A) · Round 663 to the nearest hundred = 700 (W) · Round 90 to the nearest ten = 90 (B) · Round 496 to the nearest hundred = 500 (G) · Round 4,268 to the nearest hundred = 4300 (S) · Round 367 to the nearest ten = 370 (E) · Round 9,012 to the nearest thousand = 9000 (I) · Round 166 to the nearest ten = 170 (H) · Round 2,267 to the nearest hundred = 2300 (P) · Round 52 to the nearest ten = 50 (U) · Round 287 to the nearest ten = 290 (C)

Clue 4 (Word problems): "GOLD CAP"

Equipment manager lined up 11 rows of 6 pine tar rags. How many pine tar rags in all? = 66 (G) · Equipment manager lined up 5 rows of 10 baseballs. How many baseballs in all? = 50 (L) · There were 121 pine tar rags. 24 were used up. How many pine tar rags are left? = 97 (C) · Equipment manager found 23 baseballs yesterday and 81 more today. How many baseballs in all? = 104 (P) · Equipment manager found 23 pine tar rags yesterday and 48 more today. How many pine tar rags in all? = 71 (A) · Equipment manager found 91 batting gloves yesterday and 21 more today. How many batting gloves in all? = 112 (O) · Equipment manager lined up 6 rows of 6 pine tar rags. How many pine tar rags in all? = 36 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Stan Musial

$96 \div 8 = 12$ · $36 \div 4 = 9$ · $80 \div 10 = 8$ · $4 \div 4 = 1$ · $18 \div 6 = 3$ · $6 \div 3 = 2$ · $24 \div 4 = 6$ · $35 \div 7 = 5$ · $49 \div 7 = 7$ · $40 \div 10 = 4$ · $99 \div 9 = 11$