The Case of the Missing Championship Trophy

Grade 4 math · Place value, Addition, Rounding, Subtraction, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Right before the big championship game at Diamond Park, the golden trophy vanished from the display case! Inspect the clues left around the ballfield to catch the sneaky thief.

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 thief is _____

Possible suspects

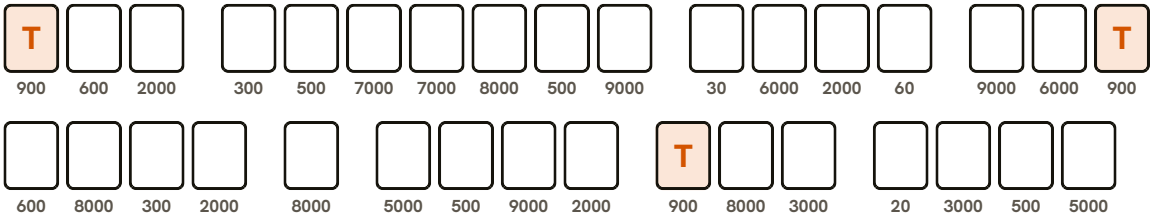
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	SPECIAL GEAR	THROWING HAND	CAP COLOR	WEAKNESS
Rory Rookie	Fireball Pitch	Golden Glove	Right Handed	Red Cap	Broken Bat
Danny Diamond	Bunt Master	Cleat Dash	Left Handed	Blue Cap	Broken Bat
Quinn Quick	Power Swing	Cleat Dash	Left Handed	Blue Cap	Soggy Baseball
Zack Zone	Fireball Pitch	Titan Bat	Left Handed	Green Cap	Broken Bat
Hank Homer	Pop Fly Catch	Pine Tar Grip	Left Handed	Green Cap	Blinding Sun
Babe Barnaby	Fireball Pitch	Golden Glove	Right Handed	Blue Cap	Broken Bat
Sammy Slugger	Pop Fly Catch	Cleat Dash	Right Handed	Green Cap	Soggy Baseball
Jax Jumper	Laser Throw	Pine Tar Grip	Right Handed	Green Cap	Blinding Sun
Manny Mound	Pop Fly Catch	Golden Glove	Left Handed	Blue Cap	Blinding Sun
Calvin Catcher	Fireball Pitch	Cleat Dash	Left Handed	Blue Cap	Broken Bat
Gigi Glove	Fireball Pitch	Pine Tar Grip	Left Handed	Green Cap	Blinding Sun
Izzy Infield	Pop Fly Catch	Golden Glove	Right Handed	Blue Cap	Blinding Sun
Toby Turf	Laser Throw	Titan Bat	Left Handed	Blue Cap	Broken Bat
Xander Xtra	Bunt Master	Golden Glove	Right Handed	Blue Cap	Soggy Baseball
Wally Whiz	Laser Throw	Pine Tar Grip	Right Handed	Blue Cap	Broken Bat
Leo Lineup	Laser Throw	Radar Sight	Right Handed	Blue Cap	Soggy Baseball
Frankie Fastball	Power Swing	Cleat Dash	Right Handed	Green Cap	Broken Bat
Vince Vendor	Pop Fly Catch	Titan Bat	Right Handed	Blue Cap	Soggy Baseball
Ulysses Ump	Pop Fly Catch	Cleat Dash	Right Handed	Red Cap	Soggy Baseball
Ernie Outfield	Fireball Pitch	Pine Tar Grip	Right Handed	Blue Cap	Soggy Baseball
Pete Pitcher	Power Swing	Golden Glove	Right Handed	Blue Cap	Soggy Baseball

CLUE 1 Place value

The dugout scoreboard flashed a secret code using place values to reveal our first lead.

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



What is the value of the 9 in 981? ☐ → T

What is the value of the 6 in 1,962? ☐ → S

What is the value of the 5 in 65,168? ☐ → P

What is the value of the 9 in 49,482? ☐ → N

What is the value of the 5 in 3,571? ☐ → I

What is the value of the 7 in 17,836? ☐ → L

What is the value of the 6 in 96,244? ☐ → O

What is the value of the 2 in 2,838? ☐ → E

What is the value of the 3 in 329? ☐ → V

What is the value of the 8 in 98,065? ☐ → A

What is the value of the 3 in 53,090? ☐ → R

What is the value of the 3 in 4,034? ☐ → D

What is the value of the 6 in 650? ☐ → H

What is the value of the 2 in 620? ☐ → G

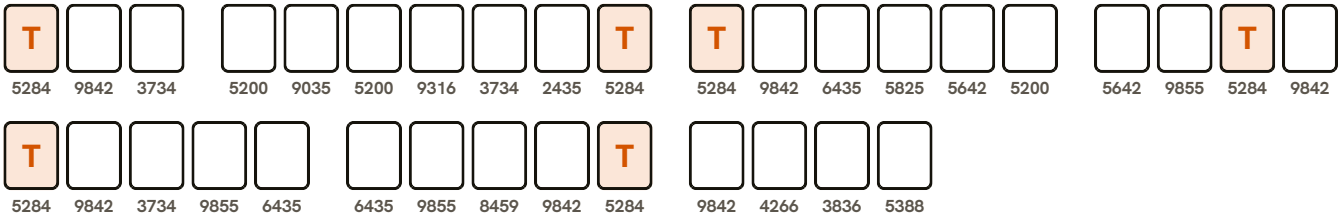
Scratch space:

CLUE 2

Addition

Coach Miller added up the total base hits recorded in the official scorebook.

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



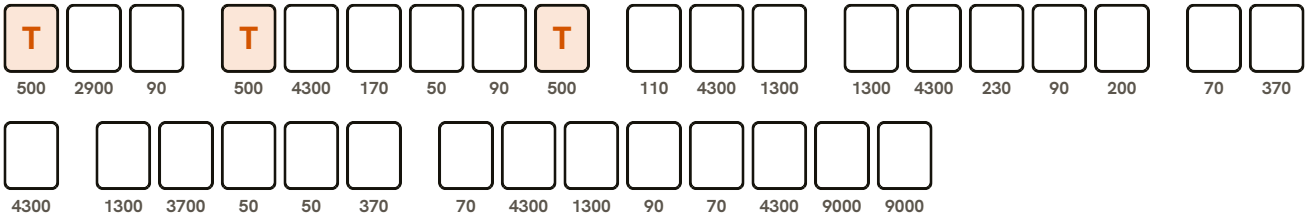
1597 + 3687 = ☐ → T	5165 + 3294 = ☐ → G	3301 + 6015 = ☐ → P
3259 + 6583 = ☐ → H	978 + 1457 = ☐ → C	2676 + 3759 = ☐ → R
6736 + 3119 = ☐ → I	2316 + 1520 = ☐ → N	1767 + 3875 = ☐ → W
4219 + 4816 = ☐ → U	3063 + 2137 = ☐ → S	1402 + 2864 = ☐ → A
2123 + 3265 = ☐ → D	1974 + 3851 = ☐ → O	1989 + 1745 = ☐ → E

Scratch space:

CLUE 3 Rounding

The radar gun speed reader rounded the pitch speed to reveal another clue.

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



Round 535 to the nearest hundred ☐ → **T**

Round 93 to the nearest ten ☐ → **E**

Round 3,676 to the nearest hundred ☐ → **O**

Round 110 to the nearest ten ☐ → **W**

Round 71 to the nearest ten ☐ → **B**

Round 2,933 to the nearest hundred ☐ → **H**

Round 1,301 to the nearest hundred ☐ → **S**

Round 232 to the nearest ten ☐ → **V**

Round 186 to the nearest hundred ☐ → **D**

Round 369 to the nearest ten ☐ → **Y**

Round 9,093 to the nearest thousand ☐ → **L**

Round 4,312 to the nearest hundred ☐ → **A**

Round 47 to the nearest ten ☐ → **G**

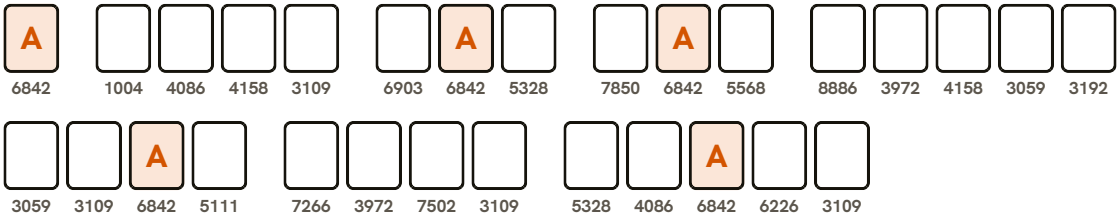
Round 166 to the nearest ten ☐ → **R**

Scratch space:

CLUE 4 Subtraction

The groundskeeper subtracted the missing batting helmets from the dugout rack.

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



10741 - 3899 = ☐ → A

11118 - 4892 = ☐ → T

7830 - 3858 = ☐ → O

4222 - 1030 = ☐ → D

8165 - 315 = ☐ → W

6772 - 3713 = ☐ → N

8101 - 4015 = ☐ → L

8898 - 3570 = ☐ → P

10295 - 1409 = ☐ → F

5895 - 1737 = ☐ → U

10076 - 4965 = ☐ → R

5297 - 2188 = ☐ → E

7373 - 107 = ☐ → H

1945 - 941 = ☐ → B

7972 - 1069 = ☐ → C

9127 - 3559 = ☐ → S

12448 - 4946 = ☐ → M

Scratch space:

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

> The mascot divided the remaining juice boxes equally among all the outfielders.

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:

121 ÷ 11 = ☐ | 54 ÷ 6 = ☐ | 40 ÷ 10 = ☐ | 60 ÷ 5 = ☐ | 30 ÷ 10 = ☐

50 ÷ 5 = ☐ | 96 ÷ 12 = ☐ | 10 ÷ 2 = ☐ | 9 ÷ 9 = ☐ | 48 ÷ 8 = ☐

77 ÷ 11 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain snagged a high pop fly, then flashed a golden glove.
2. The villain snagged a high pop fly, then swung a titan bat.
3. The villain hurled a high fastball, then flashed a golden glove.
4. The villain launched a long fly ball, then tracked with radar sight.
5. The villain smashed a line drive, then tracked with radar sight.
6. The villain hurled a high fastball, then tracked with radar sight.
7. The villain hurled a high fastball, then swung a titan bat.
8. The villain hurled a high fastball, then applied pine tar grip.
9. The villain tapped a sneaky bunt, then flashed a golden glove.
10. The villain smashed a line drive, then applied pine tar grip.
11. The villain smashed a line drive, then flashed a golden glove.
12. The villain snagged a high pop fly, then executed a cleat dash.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Trophy

Culprit: Vince Vendor

Pop Fly Catch · Titan Bat · Right Handed · Blue Cap · Soggy Baseball

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT HAVE A PINE TAR GRIP"

What is the value of the 9 in 981? = 900 (T) · What is the value of the 6 in 1,962? = 60 (S) · What is the value of the 5 in 65,168? = 5000 (P) · What is the value of the 9 in 49,482? = 9000 (N) · What is the value of the 5 in 3,571? = 500 (I) · What is the value of the 7 in 17,836? = 7000 (L) · What is the value of the 6 in 96,244? = 6000 (O) · What is the value of the 2 in 2,838? = 2000 (E) · What is the value of the 3 in 329? = 300 (V) · What is the value of the 8 in 98,065? = 8000 (A) · What is the value of the 3 in 53,090? = 3000 (R) · What is the value of the 3 in 4,034? = 30 (D) · What is the value of the 6 in 650? = 600 (H) · What is the value of the 2 in 620? = 20 (G)

Clue 2 (Addition): "THE SUSPECT THROWS WITH THEIR RIGHT HAND"

1597 + 3687 = 5284 (T) · 5165 + 3294 = 8459 (G) · 3301 + 6015 = 9316 (P) · 3259 + 6583 = 9842 (H) · 978 + 1457 = 2435 (C) · 2676 + 3759 = 6435 (R) · 6736 + 3119 = 9855 (I) · 2316 + 1520 = 3836 (N) · 1767 + 3875 = 5642 (W) · 4219 + 4816 = 9035 (U) · 3063 + 2137 = 5200 (S) · 1402 + 2864 = 4266 (A) · 2123 + 3265 = 5388 (D) · 1974 + 3851 = 5825 (O) · 1989 + 1745 = 3734 (E)

Clue 3 (Rounding): "THE TARGET WAS SAVED BY A SOGGY BASEBALL"

Round 535 to the nearest hundred = 500 (T) · Round 93 to the nearest ten = 90 (E) · Round 3,676 to the nearest hundred = 3700 (O) · Round 110 to the nearest ten = 110 (W) · Round 71 to the nearest ten = 70 (B) · Round 2,933 to the nearest hundred = 2900 (H) · Round 1,301 to the nearest hundred = 1300 (S) · Round 232 to the nearest ten = 230 (V) · Round 186 to the nearest hundred = 200 (D) · Round 369 to the nearest ten = 370 (Y) · Round 9,093 to the nearest thousand = 9000 (L) · Round 4,312 to the nearest hundred = 4300 (A) · Round 47 to the nearest ten = 50 (G) · Round 166 to the nearest ten = 170 (R)

Clue 4 (Subtraction): "A BLUE CAP WAS FOUND NEAR HOME PLATE"

10741 - 3899 = 6842 (A) · 11118 - 4892 = 6226 (T) · 7830 - 3858 = 3972 (O) · 4222 - 1030 = 3192 (D) · 8165 - 315 = 7850 (W) · 6772 - 3713 = 3059 (N) · 8101 - 4015 = 4086 (L) · 8898 - 3570 = 5328 (P) · 10295 - 1409 = 8886 (F) · 5895 - 1737 = 4158 (U) · 10076 - 4965 = 5111 (R) · 5297 - 2188 = 3109 (E) · 7373 - 107 = 7266 (H) · 1945 - 941 = 1004 (B) · 7972 - 1069 = 6903 (C) · 9127 - 3559 = 5568 (S) · 12448 - 4946 = 7502 (M)

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

121 ÷ 11 = 11 · 54 ÷ 6 = 9 · 40 ÷ 10 = 4 · 60 ÷ 5 = 12 · 30 ÷ 10 = 3 · 50 ÷ 5 = 10 · 96 ÷ 12 = 8 · 10 ÷ 2 = 5 · 9 ÷ 9 = 1 · 48 ÷ 8 = 6 · 77 ÷ 11 = 7