The PNC Park Trophy Heist

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

Detective: _____ **Date:** _____

Someone snuck into PNC Park before the big game and hid the ceremonial trophies! The clubhouse detective needs your math skills to catch the culprit before opening 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 Stadium Sneak is _____

Possible suspects

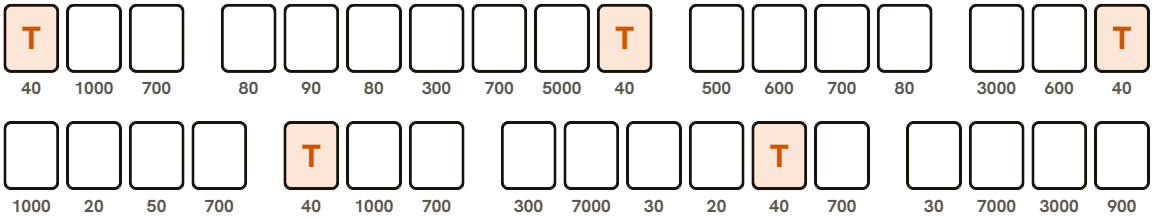
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE PITCH	PNC PARK TROPHY	BATTING STANCE	TEAM CAP	STADIUM TREAT
Aroldis Chapman	SINKER	YELLOW TOWEL	LEFT HANDED	BLACK CAP	BUBBLE GUM
Rowdy Tellez	CHANGEUP	SILVER BAT	LEFT HANDED	GOLD CAP	NACHO CHEESE
Colin Holderman	SINKER	YELLOW TOWEL	LEFT HANDED	CAMO CAP	BUBBLE GUM
Bryan Reynolds	CURVEBALL	GOLDEN GLOVE	RIGHT HANDED	CAMO CAP	BUBBLE GUM
Mitch Keller	CHANGEUP	GOLDEN GLOVE	LEFT HANDED	CAMO CAP	SUNFLOWER SEEDS
Jack Suwinski	SLIDER	GOLDEN GLOVE	LEFT HANDED	BLACK CAP	NACHO CHEESE
Willie Stargell	SINKER	SILVER BAT	LEFT HANDED	GOLD CAP	BUBBLE GUM
Bill Mazeroski	CHANGEUP	SILVER BAT	RIGHT HANDED	BLACK CAP	NACHO CHEESE
Oneil Cruz	SLIDER	YELLOW TOWEL	RIGHT HANDED	GOLD CAP	BUBBLE GUM
Henry Davis	SINKER	PIRATE RING	LEFT HANDED	CAMO CAP	BUBBLE GUM
KeBryan Hayes	SLIDER	GOLDEN GLOVE	LEFT HANDED	CAMO CAP	BUBBLE GUM
Joey Bart	CURVEBALL	YELLOW TOWEL	LEFT HANDED	CAMO CAP	SUNFLOWER SEEDS
Dave Parker	CHANGEUP	SILVER BAT	RIGHT HANDED	BLACK CAP	BUBBLE GUM
Michael A Taylor	SLIDER	GOLDEN GLOVE	LEFT HANDED	CAMO CAP	SUNFLOWER SEEDS
Jared Jones	CHANGEUP	GOLDEN GLOVE	RIGHT HANDED	BLACK CAP	NACHO CHEESE
Paul Skenes	FASTBALL	BLACK BANNER	LEFT HANDED	CAMO CAP	BUBBLE GUM
Barry Bonds	SINKER	BLACK BANNER	RIGHT HANDED	BLACK CAP	SUNFLOWER SEEDS
Roberto Clemente	SINKER	YELLOW TOWEL	LEFT HANDED	GOLD CAP	NACHO CHEESE
David Bednar	CURVEBALL	GOLDEN GLOVE	LEFT HANDED	CAMO CAP	BUBBLE GUM
Nick Gonzales	CURVEBALL	SILVER BAT	RIGHT HANDED	GOLD CAP	SUNFLOWER SEEDS
Yasmani Grandal	CHANGEUP	PIRATE RING	LEFT HANDED	BLACK CAP	SUNFLOWER SEEDS

CLUE 1 Place value

The clubhouse detective checked the digit values on the stolen jersey labels to narrow down the clues.

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



What is the value of the 4 in 1,543? ☐ → T

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

What is the value of the 1 in 1,848? ☐ → H

What is the value of the 8 in 4,382? ☐ → S

What is the value of the 9 in 5,897? ☐ → U

What is the value of the 3 in 2,136? ☐ → R

What is the value of the 5 in 9,546? ☐ → D

What is the value of the 5 in 7,151? ☐ → V

What is the value of the 3 in 9,317? ☐ → P

What is the value of the 3 in 3,891? ☐ → N

What is the value of the 7 in 27,615? ☐ → I

What is the value of the 2 in 725? ☐ → A

What is the value of the 6 in 682? ☐ → O

What is the value of the 5 in 5,126? ☐ → C

What is the value of the 7 in 703? ☐ → E

Scratch space:

CLUE 2 Rounding

The dugout radar board rounded the pitch speed display to the nearest ten to keep the score secret.

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

W											W								
1100	1700	90	30	4300	20	20	4300	20	20	900	1100	900	3700	4300	110	90	700	900	30	50	4300	50	200	3700	900	2300	4300	5000

Round 1,131 to the nearest hundred ☐ → W

Round 28 to the nearest ten ☐ → N

Round 89 to the nearest ten ☐ → T

Round 4,789 to the nearest thousand ☐ → R

Round 3,715 to the nearest hundred ☐ → L

Round 222 to the nearest hundred ☐ → P

Round 52 to the nearest ten ☐ → D

Round 17 to the nearest ten ☐ → S

Round 2,282 to the nearest hundred ☐ → Y

Round 107 to the nearest ten ☐ → F

Round 4,333 to the nearest hundred ☐ → E

Round 901 to the nearest hundred ☐ → A

Round 740 to the nearest hundred ☐ → H

Round 1,662 to the nearest hundred ☐ → I

Scratch space:

CLUE 3 Addition

The equipment manager added up all the lost baseball buckets collected from the outfield gaps.

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



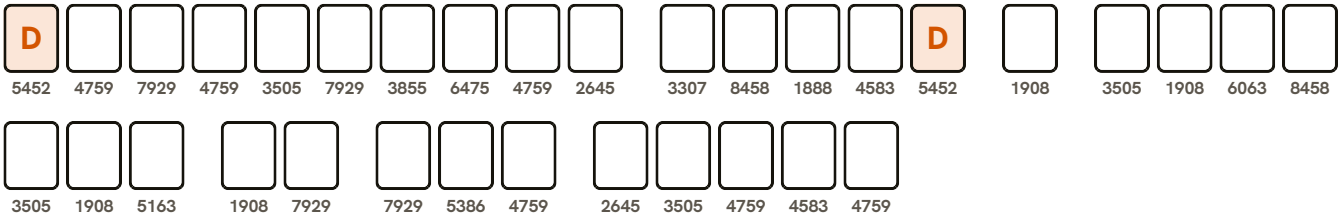
2608 + 1395 = ☐ → T	5771 + 4064 = ☐ → R	3020 + 6193 = ☐ → G
2090 + 981 = ☐ → O	3765 + 4206 = ☐ → F	6327 + 2873 = ☐ → E
2275 + 1517 = ☐ → L	3435 + 2908 = ☐ → V	4260 + 3060 = ☐ → B
3817 + 4821 = ☐ → A	3255 + 5959 = ☐ → M	1491 + 2830 = ☐ → H
1199 + 1405 = ☐ → S	4744 + 2061 = ☐ → I	2179 + 1144 = ☐ → N
2171 + 2062 = ☐ → Y	3617 + 6067 = ☐ → K	2116 + 1182 = ☐ → U

Scratch space:

CLUE 4 Subtraction

The bullpen coach subtracted the missing bats from the total rack inventory before game time.

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



9832 - 4380 = ☐ → D	8937 - 2462 = ☐ → V	6080 - 2225 = ☐ → I
8814 - 356 = ☐ → O	4648 - 2003 = ☐ → S	6818 - 2235 = ☐ → N
5040 - 1733 = ☐ → F	2411 - 503 = ☐ → A	9004 - 1075 = ☐ → T
4637 - 2749 = ☐ → U	8137 - 2751 = ☐ → H	10910 - 4847 = ☐ → M
8465 - 3302 = ☐ → P	5056 - 1551 = ☐ → C	5208 - 449 = ☐ → E

Scratch space:

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

> The team trainer divided the snack boxes equally among the remaining dugout lockers.

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:

12 ÷ 4 = ☐	32 ÷ 8 = ☐	24 ÷ 12 = ☐	40 ÷ 4 = ☐	36 ÷ 3 = ☐
20 ÷ 4 = ☐	54 ÷ 6 = ☐	4 ÷ 4 = ☐	110 ÷ 10 = ☐	24 ÷ 4 = ☐
49 ÷ 7 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain floated a slow changeup, then snagged the golden glove.
2. The villain snapped a wicked slider, then snagged the golden glove.
3. The villain threw a blazing fastball, then raised the black banner.
4. The villain spun a sharp curveball, then snagged the golden glove.
5. The villain floated a slow changeup, then swiped the pirate ring.
6. The villain spun a sharp curveball, then swung the silver bat.
7. The villain dropped a heavy sinker, then swiped the pirate ring.
8. The villain dropped a heavy sinker, then waved the yellow towel.
9. The villain snapped a wicked slider, then waved the yellow towel.
10. The villain threw a blazing fastball, then swiped the pirate ring.
11. The villain spun a sharp curveball, then waved the yellow towel.
12. The villain floated a slow changeup, then swung the silver bat.

TEACHER / PARENT

Answer Key

The PNC Park Trophy Heist

Culprit: Colin Holderman

SINKER · YELLOW TOWEL · LEFT HANDED · CAMO CAP · BUBBLE GUM

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SUSPECT DOES NOT HAVE THE PIRATE RING"

What is the value of the 4 in 1,543? = 40 (T) · What is the value of the 9 in 981? = 900 (G) · What is the value of the 1 in 1,848? = 1000 (H) · What is the value of the 8 in 4,382? = 80 (S) · What is the value of the 9 in 5,897? = 90 (U) · What is the value of the 3 in 2,136? = 30 (R) · What is the value of the 5 in 9,546? = 500 (D) · What is the value of the 5 in 7,151? = 50 (V) · What is the value of the 3 in 9,317? = 300 (P) · What is the value of the 3 in 3,891? = 3000 (N) · What is the value of the 7 in 27,615? = 7000 (I) · What is the value of the 2 in 725? = 20 (A) · What is the value of the 6 in 682? = 600 (O) · What is the value of the 5 in 5,126? = 5000 (C) · What is the value of the 7 in 703? = 700 (E)

Clue 2 (Rounding): "WITNESSES SAW A LEFT HANDED PLAYER"

Round 1,131 to the nearest hundred = 1100 (W) · Round 28 to the nearest ten = 30 (N) · Round 89 to the nearest ten = 90 (T) · Round 4,789 to the nearest thousand = 5000 (R) · Round 3,715 to the nearest hundred = 3700 (L) · Round 222 to the nearest hundred = 200 (P) · Round 52 to the nearest ten = 50 (D) · Round 17 to the nearest ten = 20 (S) · Round 2,282 to the nearest hundred = 2300 (Y) · Round 107 to the nearest ten = 110 (F) · Round 4,333 to the nearest hundred = 4300 (E) · Round 901 to the nearest hundred = 900 (A) · Round 740 to the nearest hundred = 700 (H) · Round 1,662 to the nearest hundred = 1700 (I)

Clue 3 (Addition): "THE SNEAKY VILLAIN FELL FOR BUBBLE GUM"

2608 + 1395 = 4003 (T) · 5771 + 4064 = 9835 (R) · 3020 + 6193 = 9213 (G) · 2090 + 981 = 3071 (O) · 3765 + 4206 = 7971 (F) · 6327 + 2873 = 9200 (E) · 2275 + 1517 = 3792 (L) · 3435 + 2908 = 6343 (V) · 4260 + 3060 = 7320 (B) · 3817 + 4821 = 8638 (A) · 3255 + 5959 = 9214 (M) · 1491 + 2830 = 4321 (H) · 1199 + 1405 = 2604 (S) · 4744 + 2061 = 6805 (I) · 2179 + 1144 = 3323 (N) · 2171 + 2062 = 4233 (Y) · 3617 + 6067 = 9684 (K) · 2116 + 1182 = 3298 (U)

Clue 4 (Subtraction): "DETECTIVES FOUND A CAMO CAP AT THE SCENE"

9832 - 4380 = 5452 (D) · 8937 - 2462 = 6475 (V) · 6080 - 2225 = 3855 (I) · 8814 - 356 = 8458 (O) · 4648 - 2003 = 2645 (S) · 6818 - 2235 = 4583 (N) · 5040 - 1733 = 3307 (F) · 2411 - 503 = 1908 (A) · 9004 - 1075 = 7929 (T) · 4637 - 2749 = 1888 (U) · 8137 - 2751 = 5386 (H) · 10910 - 4847 = 6063 (M) · 8465 - 3302 = 5163 (P) · 5056 - 1551 = 3505 (C) · 5208 - 449 = 4759 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Colin Holderman

12 ÷ 4 = 3 · 32 ÷ 8 = 4 · 24 ÷ 12 = 2 · 40 ÷ 4 = 10 · 36 ÷ 3 = 12 · 20 ÷ 4 = 5 · 54 ÷ 6 = 9 · 4 ÷ 4 = 1 · 110 ÷ 10 = 11 · 24 ÷ 4 = 6 · 49 ÷ 7 = 7