



The Golden Glove Mystery

Grade 4 math · Addition, Rounding, Subtraction, Multiplication, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Someone snuck onto Diamond Park before the championship game and swapped the real championship trophy with a painted brick! Detective, use the math clues to catch the 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 snatcher is _____

Possible suspects

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

NAME	PITCHING STYLE	BATTING GEAR	THROWING HAND	CAP COLOR	SNACK HABIT
Justin Verlander	Changeup	Batting Gloves	Left Handed	Red Cap	Sunflower Seeds
Derek Jeter	Knuckleball	Weighted Doughnut	Left Handed	Gold Cap	Bubble Gum
Shohei Ohtani	Fastball	Weighted Doughnut	Left Handed	Gold Cap	Sunflower Seeds
Gerrit Cole	Sinker	Weighted Doughnut	Left Handed	Red Cap	Sunflower Seeds
Kenley Jansen	Changeup	Batting Gloves	Left Handed	Red Cap	Bubble Gum
Willie Mays	Fastball	Pine Tar Bat	Left Handed	Red Cap	Sunflower Seeds
Jackie Robinson	Changeup	Batting Gloves	Right Handed	Blue Cap	Sunflower Seeds
Cal Ripken	Sinker	Elbow Guard	Right Handed	Gold Cap	Bubble Gum
Mookie Betts	Fastball	Ankle Guard	Left Handed	Red Cap	Sunflower Seeds
Sammy Sosa	Curveball	Pine Tar Bat	Left Handed	Gold Cap	Bubble Gum
Mike Trout	Sinker	Elbow Guard	Right Handed	Red Cap	Bubble Gum
Zack Greinke	Fastball	Elbow Guard	Right Handed	Gold Cap	Peanuts
Roberto Clemente	Fastball	Weighted Doughnut	Left Handed	Red Cap	Bubble Gum
Babe Ruth	Knuckleball	Pine Tar Bat	Left Handed	Gold Cap	Peanuts
Clayton Kershaw	Sinker	Weighted Doughnut	Right Handed	Gold Cap	Peanuts
Ted Williams	Changeup	Pine Tar Bat	Right Handed	Red Cap	Peanuts
Max Scherzer	Changeup	Ankle Guard	Right Handed	Blue Cap	Sunflower Seeds
Aaron Judge	Curveball	Elbow Guard	Left Handed	Gold Cap	Bubble Gum
Bryce Harper	Sinker	Batting Gloves	Right Handed	Gold Cap	Peanuts
Ken Griffey	Changeup	Elbow Guard	Left Handed	Red Cap	Sunflower Seeds
Hank Aaron	Curveball	Weighted Doughnut	Right Handed	Red Cap	Sunflower Seeds

CLUE 1 Addition

The concession manager tallied up extra ticket sales to narrow down the crowd.

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

A number line starting at 2501 and ending at 2501. The line is divided into 18 segments by 19 vertical tick marks. Each segment contains an empty box for a digit. The first and last boxes are labeled 'T'.

T																	T
2501	9420	5433	9554	7786	5719	5719	3567	7786	7605	9488	3202	5433	9183	7605	3202	2501	

$1456 + 1045 = \boxed{} \rightarrow \boxed{\text{T}}$

$$5951 + 3603 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$$3667 + 2687 = \boxed{} \rightarrow \boxed{\text{W}}$$

$1912 + 3521 = \boxed{} \rightarrow \boxed{\text{E}}$

$1920 + 1178 = \boxed{} \rightarrow \boxed{\text{G}}$

$$3152 + 4453 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1179 + 2023 = \boxed{} \rightarrow \boxed{0}$$

$$1247 + 2770 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$6253 + 3235 = \boxed{} \rightarrow \boxed{\mathbf{D}}$$

$$5743 + 3677 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4471 + 5402 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$1450 + 2410 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1496 + 2071 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$3090 + 2629 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$4839 + 4344 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$3329 + 4457 = \boxed{} \rightarrow \boxed{}$$

Scratch space:

CLUE 2
Rounding

The stadium radar gun only shows pitch speeds rounded to the nearest ten.

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

A						A									
300	700	230	2300	30	2000	300	50	70	230	70	30	2000	5000	130	290

						A							A			
200	5000	90	50	30	290	300	20	130	50	30	2000	230	110	300	20	230

Round 272 to the nearest hundred → **A**

Round 23 to the nearest ten → **S**

Round 2,296 to the nearest hundred → **F**

Round 71 to the nearest ten → **D**

Round 2,129 to the nearest thousand → **H**

Round 655 to the nearest hundred → **L**

Round 114 to the nearest ten → **B**

Round 27 to the nearest ten → **T**

Round 4,755 to the nearest thousand → **R**

Round 93 to the nearest ten → **I**

Round 134 to the nearest ten → **O**

Round 230 to the nearest ten → **E**

Round 289 to the nearest ten → **W**

Round 48 to the nearest ten → **N**

Round 167 to the nearest hundred → **P**

Scratch space:

CLUE 3
Subtraction

The equipment manager subtracted missing bat counts from the inventory sheet.

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

S									S				S					S
5086	2319	1770	7290	8823	5220	3391	4823	8888	5086	4823	4823	3867	5086	5320	4823	8823	8823	5086
3391	4823	8888	4823	8823	4823	7290	6285	1851	6285	5320	5220	5092	4823	7193	8823	1851	6285	4823

$5433 - 347 = \square \rightarrow \text{S}$

$11531 - 4338 = \square \rightarrow \text{P}$

$10214 - 3929 = \square \rightarrow \text{T}$

$12275 - 3387 = \square \rightarrow \text{R}$

$11681 - 2858 = \square \rightarrow \text{L}$

$9455 - 4235 = \square \rightarrow \text{O}$

$8435 - 3115 = \square \rightarrow \text{H}$

$8218 - 4827 = \square \rightarrow \text{W}$

$7698 - 3831 = \square \rightarrow \text{D}$

$5904 - 4134 = \square \rightarrow \text{N}$

$5792 - 3941 = \square \rightarrow \text{A}$

$10256 - 2966 = \square \rightarrow \text{F}$

$2650 - 331 = \square \rightarrow \text{U}$

$9223 - 4400 = \square \rightarrow \text{E}$

$8579 - 3487 = \square \rightarrow \text{M}$

Scratch space:

Multiplication facts (1-12)

The groundskeeper counted practice baseballs arranged in neat matching rows.

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

A number line from 0 to 100. The numbers 8, 72, 4, 28, 42, 60, 60, 42, 60, 60, 21, 8, 21, 9, 42, 50, 99, 21, and 6 are placed in boxes. The box containing the number 8 is highlighted in orange and contains the word 'W'.

$4 \times 2 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$7 \times 3 = \square \rightarrow \mathbf{A}$

$$2 \times 2 = \boxed{} \rightarrow \boxed{\mathbf{T}}$$

$7 \times 4 = \square \rightarrow \boxed{\text{N}}$

$8 \times 7 = \boxed{} \rightarrow \boxed{\text{H}}$

$4 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$7 \times 6 = \boxed{} \rightarrow \boxed{\text{E}}$

$6 \times 12 = \boxed{} \rightarrow \boxed{\text{I}}$

$$12 \times 5 = \boxed{} \rightarrow \boxed{\text{S}}$$

$6 \times 1 = \boxed{} \rightarrow \boxed{\text{P}}$

$11 \times 9 = \boxed{} \rightarrow \boxed{\text{C}}$

$5 \times 10 =$ $\rightarrow$ **D**

$9 \times 1 = \boxed{} \rightarrow \boxed{\text{R}}$

$6 \times 9 = \square \rightarrow \mathbf{F}$

$8 \times 12 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 5**Missing addends - the last clue**

The scorekeeper solved missing inning totals to fix the broken scoreboard.

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:

$30 + \underline{\quad} = 32$

$38 + \underline{\quad} = 42$

$29 + \underline{\quad} = 34$

$7 + \underline{\quad} = 16$

$40 + \underline{\quad} = 52$

$23 + \underline{\quad} = 24$

$36 + \underline{\quad} = 47$

$36 + \underline{\quad} = 44$

$2 + \underline{\quad} = 12$

$4 + \underline{\quad} = 10$

$29 + \underline{\quad} = 36$

Step 2 - cross out the sentence with each answer:

1. The villain tossed a slow changeup, then swung a weighted doughnut ring.
2. The villain threw a sixty mile fastball, then buckled a tight ankle guard.
3. The villain dropped a heavy sinker, then swung a weighted doughnut ring.
4. The villain threw a sixty mile fastball, then swung a heavy pine tar bat.
5. The villain tossed a slow changeup, then adjusted two soft batting gloves.
6. The villain threw a sixty mile fastball, then swung a weighted doughnut ring.
7. The villain snapped a sharp curveball, then strapped on an elbow guard.
8. The villain snapped a sharp curveball, then swung a heavy pine tar bat.
9. The villain snapped a sharp curveball, then swung a weighted doughnut ring.
10. The villain floated a weird knuckleball, then swung a weighted doughnut ring.
11. The villain tossed a slow changeup, then strapped on an elbow guard.
12. The villain floated a weird knuckleball, then strapped on an elbow guard.

Answer Key

The Golden Glove Mystery

Culprit: Gerrit Cole

Sinker · Weighted Doughnut · Left Handed · Red Cap · Sunflower Seeds

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

Clue 1 (Addition): "THE VILLAIN DOES NOT USE AN ELBOW GUARD"

$1456 + 1045 = 2501$ (T) · $5951 + 3603 = 9554$ (V) · $3667 + 2687 = 6354$ (W) · $1912 + 3521 = 5433$ (E) · $1920 + 1178 = 3098$ (G) · $3152 + 4453 = 7605$ (N) · $1179 + 2023 = 3202$ (O) · $1247 + 2770 = 4017$ (U) · $6253 + 3235 = 9488$ (D) · $5743 + 3677 = 9420$ (H) · $4471 + 5402 = 9873$ (B) · $1450 + 2410 = 3860$ (R) · $1496 + 2071 = 3567$ (A) · $3090 + 2629 = 5719$ (L) · $4839 + 4344 = 9183$ (S) · $3329 + 4457 = 7786$ (I)

Clue 2 (Rounding): "A LEFT HANDED THROW PRINT WAS ON THE BASE"

Round 272 to the nearest hundred = 300 (A) · Round 23 to the nearest ten = 20 (S) · Round 2,296 to the nearest hundred = 2300 (F) · Round 71 to the nearest ten = 70 (D) · Round 2,129 to the nearest thousand = 2000 (H) · Round 655 to the nearest hundred = 700 (L) · Round 114 to the nearest ten = 110 (B) · Round 27 to the nearest ten = 30 (T) · Round 4,755 to the nearest thousand = 5000 (R) · Round 93 to the nearest ten = 90 (I) · Round 134 to the nearest ten = 130 (O) · Round 230 to the nearest ten = 230 (E) · Round 289 to the nearest ten = 290 (W) · Round 48 to the nearest ten = 50 (N) · Round 167 to the nearest hundred = 200 (P)

Clue 3 (Subtraction): "SUNFLOWER SEED SHELLS WERE LEFT AT HOME PLATE"

$5433 - 347 = 5086$ (S) · $11531 - 4338 = 7193$ (P) · $10214 - 3929 = 6285$ (T) · $12275 - 3387 = 8888$ (R) · $11681 - 2858 = 8823$ (L) · $9455 - 4235 = 5220$ (O) · $8435 - 3115 = 5320$ (H) · $8218 - 4827 = 3391$ (W) · $7698 - 3831 = 3867$ (D) · $5904 - 4134 = 1770$ (N) · $5792 - 3941 = 1851$ (A) · $10256 - 2966 = 7290$ (F) · $2650 - 331 = 2319$ (U) · $9223 - 4400 = 4823$ (E) · $8579 - 3487 = 5092$ (M)

Clue 4 (Multiplication facts (1-12)): "WITNESSES SAW A RED CAP FLEEING THE FIELD"

$4 \times 2 = 8$ (W) · $7 \times 3 = 21$ (A) · $2 \times 2 = 4$ (T) · $7 \times 4 = 28$ (N) · $8 \times 7 = 56$ (H) · $4 \times 9 = 36$ (G) · $7 \times 6 = 42$ (E) · $6 \times 12 = 72$ (I) · $12 \times 5 = 60$ (S) · $6 \times 1 = 6$ (P) · $11 \times 9 = 99$ (C) · $5 \times 10 = 50$ (D) · $9 \times 1 = 9$ (R) · $6 \times 9 = 54$ (F) · $8 \times 12 = 96$ (L)

Clue 5 (Missing addends): surviving statement is box 3 → Gerrit Cole

$30 + \underline{\quad} = 32 = 2$ · $38 + \underline{\quad} = 42 = 4$ · $29 + \underline{\quad} = 34 = 5$ · $7 + \underline{\quad} = 16 = 9$ · $40 + \underline{\quad} = 52 = 12$ · $23 + \underline{\quad} = 24 = 1$ · $36 + \underline{\quad} = 47 = 11$ · $36 + \underline{\quad} = 44 = 8$ · $2 + \underline{\quad} = 12 = 10$ · $4 + \underline{\quad} = 10 = 6$ · $29 + \underline{\quad} = 36 = 7$