



The Big League Mystery

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

Detective: _____ **Date:** _____

The night before the championship game, someone broke into Grand Park Stadium! The golden home plate has vanished, and baseball gear is scrambled all over the field. Coach Buster and the Mudhens need your help to track down the suspect before the umpire blows the first whistle!

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 PITCH	LUCKY GEAR	BATTING HAND	HAIR UNDER CAP	GAME DISTRACTION
Derek Jeter	Fastball	Silver Helmet	Left Handed	Blonde Hair	Sticky Mud
Gerrit Cole	Knuckleball	Silver Helmet	Left Handed	Blonde Hair	Sticky Mud
Corey Seager	Fastball	Red Wristband	Left Handed	Blonde Hair	Soggy Field
Ken Griffey Jr	Knuckleball	Gold Glove	Right Handed	Red Hair	Sticky Mud
Clayton Kershaw	Slider	Pine Tar Bat	Left Handed	Black Hair	Sticky Mud
Bryce Harper	Slider	Gold Glove	Left Handed	Black Hair	Loud Hecklers
Ronald Acuna Jr	Knuckleball	Silver Helmet	Left Handed	Blonde Hair	Soggy Field
Marcus Semien	Curveball	Silver Helmet	Left Handed	Black Hair	Loud Hecklers
Adley Rutschman	Fastball	Silver Helmet	Right Handed	Red Hair	Sticky Mud
Reggie Jackson	Slider	Lucky Socks	Right Handed	Blonde Hair	Soggy Field
Julio Rodriguez	Slider	Red Wristband	Left Handed	Red Hair	Soggy Field
Pete Alonso	Curveball	Red Wristband	Left Handed	Red Hair	Loud Hecklers
Bobby Witt Jr	Curveball	Lucky Socks	Left Handed	Red Hair	Soggy Field
Francisco Lindor	Changeup	Pine Tar Bat	Left Handed	Blonde Hair	Loud Hecklers
Jackie Robinson	Changeup	Gold Glove	Left Handed	Black Hair	Soggy Field
Corbin Carroll	Changeup	Gold Glove	Right Handed	Red Hair	Sticky Mud
Mookie Betts	Knuckleball	Lucky Socks	Left Handed	Black Hair	Loud Hecklers
Justin Verlander	Knuckleball	Gold Glove	Left Handed	Black Hair	Loud Hecklers
Jose Altuve	Fastball	Silver Helmet	Left Handed	Black Hair	Loud Hecklers
Mike Trout	Slider	Silver Helmet	Right Handed	Black Hair	Loud Hecklers
Aaron Judge	Changeup	Red Wristband	Right Handed	Black Hair	Soggy Field

CLUE 1

We need to tally up all the extra baseballs left in the practice bins. Adding the bins together will help us spot the first big clue!

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

The diagram consists of two rows of boxes. The top row contains 18 boxes, with the first and tenth boxes highlighted in orange and labeled 'T'. The other boxes are white. Below each box is a number. The bottom row contains 15 empty white boxes, with numbers below them.

T									T								T
806	768	247	468	206	468	301	247	954	806	845	708	247	468	880	708	806	
233	247	657	724	242	206	954	748	294	468	708	954	748	468				

$$294 + 512 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$74 + 159 = \boxed{} \rightarrow \boxed{\text{W}}$$

$525 + 320 = \boxed{} \rightarrow \mathbf{D}$

$615 + 339 = \boxed{} \rightarrow \mathbf{C}$

$$157 + 90 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$168 + 74 = \boxed{} \rightarrow \boxed{\text{L}}$$

$129 + 77 = \boxed{} \rightarrow \boxed{\mathbf{U}}$

$181 + 113 = \square \rightarrow \mathbf{Y}$

$$280 + 444 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$189 + 112 = \boxed{} \rightarrow \boxed{\text{P}}$$

$421 + 459 = \boxed{} \rightarrow \boxed{\text{N}}$

$$243 + 525 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$233 + 475 = \boxed{} \rightarrow \boxed{\text{O}}$$

$260 + 488 = \boxed{} \rightarrow \boxed{\text{K}}$

$373 + 284 = \boxed{} \rightarrow \mathbf{A}$

$309 + 159 = \boxed{} \rightarrow \mathbf{S}$

Scratch space:

CLUE 2

The bullpen started with a big tub of sports drinks but players took some during the game. Subtract the empty bottles to see what remains!

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

Diagram illustrating the sequence of numbers and their corresponding 'T' markers across two rows:

Row	Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Box 15	Box 16	Box 17	Box 18	Box 19	Box 20
1	282	208	539	578	710	351	351	416	710	302	890	545	710	302	559	890	545	710	282	208
2	282	208	539	710	460	351	539	225	282	208	416	302	426							

Note: 'T' markers are placed above the first 282 in row 1, above the 282 in row 2, and above the 282 in row 1.

$601 - 319 = \square \rightarrow \boxed{\text{T}}$

$874 - 296 = \boxed{} \rightarrow \boxed{\text{V}}$

$$517 - 166 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$903 - 193 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$560 - 100 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$493 - 268 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$648 - 222 = \boxed{} \rightarrow \boxed{\text{D}}$$

$772 - 356 = \square \rightarrow \boxed{\mathbf{A}}$

$$321 - 19 = \boxed{} \rightarrow \boxed{\text{N}}$$

$756 - 211 = \square \rightarrow \boxed{\text{W}}$

$$775 - 236 = \boxed{} \rightarrow \boxed{\text{E}}$$

$788 - 229 = \square \rightarrow \boxed{\mathbf{G}}$

$$976 - 86 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$403 - 195 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 3

The team arranged boxes of fresh baseball bats in equal rows near the dugout. Let's multiply the rows to find the next clue!

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

A number line from 0 to 100. The line is divided into segments by vertical tick marks. Below the line, numbers are written in each segment: 144, 44, 49, 7, 24, 7, 15, 49, 88, 144, 55, 49, 144, 7, 24, 15, 7, 49, 144. Above the line, there are boxes for numbers. The boxes for 144, 49, 144, and 144 are shaded orange and contain the letter 'T'. The other boxes are white and empty.

$12 \times 12 = \boxed{} \rightarrow \boxed{\text{T}}$

$6 \times 2 = \boxed{} \rightarrow \boxed{0}$

$5 \times 3 = \square \rightarrow \boxed{\text{P}}$

$5 \times 11 = \square \rightarrow \boxed{\mathbf{G}}$

$9 \times 12 = \square \rightarrow \boxed{\mathbf{B}}$

$4 \times 11 = \boxed{} \rightarrow \boxed{\text{H}}$

$4 \times 6 = \boxed{} \rightarrow \boxed{\text{U}}$

$7 \times 5 = \boxed{} \rightarrow \boxed{\text{L}}$

$7 \times 1 =$ $\rightarrow$ **S**

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

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

$10 \times 10 = \boxed{} \rightarrow \boxed{\text{Y}}$

$7 \times 7 = \square \rightarrow \boxed{\mathbf{E}}$

$11 \times 8 = \boxed{} \rightarrow \boxed{\text{C}}$

$3 \times 7 = \boxed{} \rightarrow \boxed{\text{K}}$

Scratch space:

CLUE 4 Rounding

The stadium radar gun tracked a fast throw but the dusty screen only shows the speed rounded to the nearest ten.

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

W																	
700	8000	40	6000	600	50	80	20	70	2000	3000	200	500	2000	300	7000		
600	50	80	8000	7000	30	500	8000	20	2000	30	30	8000	7000	4000	20	6000	800

Round 665 to the nearest hundred → **W**

Round 21 to the nearest ten → **B**

Round 7,208 to the nearest thousand → **R**

Round 799 to the nearest hundred → **X**

Round 318 to the nearest hundred → **I**

Round 4,212 to the nearest thousand → **S**

Round 7,801 to the nearest thousand → **E**

Round 46 to the nearest ten → **N**

Round 218 to the nearest hundred → **K**

Round 81 to the nearest ten → **D**

Round 32 to the nearest ten → **T**

Round 70 to the nearest ten → **L**

Round 588 to the nearest hundred → **U**

Round 5,723 to the nearest thousand → **O**

Round 1,651 to the nearest thousand → **A**

Round 533 to the nearest hundred → **H**

Round 2,761 to the nearest thousand → **C**

Round 36 to the nearest ten → **F**

Scratch space:

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

Coach wants to share a big bag of delicious sunflower seeds equally among the players on the bench. Divide them up to crack the case!

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:

$90 \div 9 = \boxed{}$

$48 \div 8 = \boxed{}$

$25 \div 5 = \boxed{}$

$3 \div 3 = \boxed{}$

$33 \div 3 = \boxed{}$

$32 \div 8 = \boxed{}$

$120 \div 10 = \boxed{}$

$80 \div 10 = \boxed{}$

$108 \div 12 = \boxed{}$

$63 \div 9 = \boxed{}$

$24 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain stole the golden home plate, then dropped a dusty batting glove.
2. The villain stole the golden home plate, then slid safely under the stadium gate.
3. The villain swapped the mascots big foam head, then ran past the outfield fence.
4. The villain scrambled the dugout batting lineup, then slid safely under the stadium gate.
5. The villain stole the golden home plate, then bolted toward the hot dog stand.
6. The villain sneaked into the umpire locker room, then bolted toward the hot dog stand.
7. The villain hid the championship game balls, then slid safely under the stadium gate.
8. The villain hid the championship game balls, then left muddy cleat marks on first base.
9. The villain scrambled the dugout batting lineup, then bolted toward the hot dog stand.
10. The villain scrambled the dugout batting lineup, then ran past the outfield fence.
11. The villain swapped the mascots big foam head, then left muddy cleat marks on first base.
12. The villain sneaked into the umpire locker room, then dropped a dusty batting glove.

Answer Key

The Big League Mystery

Culprit: Justin Verlander

Knuckleball · Gold Glove · Left Handed · Black Hair · Loud Hecklers

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT WEAR LUCKY SOCKS"

$294 + 512 = 806$ (T) · $74 + 159 = 233$ (W) · $525 + 320 = 845$ (D) · $615 + 339 = 954$ (C) · $157 + 90 = 247$ (E) · $168 + 74 = 242$ (L) · $129 + 77 = 206$ (U) · $181 + 113 = 294$ (Y) · $280 + 444 = 724$ (R) · $189 + 112 = 301$ (P) · $421 + 459 = 880$ (N) · $243 + 525 = 768$ (H) · $233 + 475 = 708$ (O) · $260 + 488 = 748$ (K) · $373 + 284 = 657$ (A) · $309 + 159 = 468$ (S)

Clue 2 (Subtraction): "THE VILLAIN SWINGS WITH THEIR LEFT HAND"

$601 - 319 = 282$ (T) · $874 - 296 = 578$ (V) · $517 - 166 = 351$ (L) · $903 - 193 = 710$ (I) · $560 - 100 = 460$ (R) · $493 - 268 = 225$ (F) · $648 - 222 = 426$ (D) · $772 - 356 = 416$ (A) · $321 - 19 = 302$ (N) · $756 - 211 = 545$ (W) · $775 - 236 = 539$ (E) · $788 - 229 = 559$ (G) · $976 - 86 = 890$ (S) · $403 - 195 = 208$ (H)

Clue 3 (Multiplication facts (1-12)): "THE SUSPECT GETS UPSET BY LOUD HECKLERS"

$12 \times 12 = 144$ (T) · $6 \times 2 = 12$ (O) · $5 \times 3 = 15$ (P) · $5 \times 11 = 55$ (G) · $9 \times 12 = 108$ (B) · $4 \times 11 = 44$ (H) · $4 \times 6 = 24$ (U) · $7 \times 5 = 35$ (L) · $7 \times 1 = 7$ (S) · $8 \times 12 = 96$ (D) · $1 \times 6 = 6$ (R) · $10 \times 10 = 100$ (Y) · $7 \times 7 = 49$ (E) · $11 \times 8 = 88$ (C) · $3 \times 7 = 21$ (K)

Clue 4 (Rounding): "WE FOUND BLACK HAIR UNDER THE BATTERS BOX"

Round 665 to the nearest hundred = 700 (W) · Round 21 to the nearest ten = 20 (B) · Round 7,208 to the nearest thousand = 7000 (R) · Round 799 to the nearest hundred = 800 (X) · Round 318 to the nearest hundred = 300 (I) · Round 4,212 to the nearest thousand = 4000 (S) · Round 7,801 to the nearest thousand = 8000 (E) · Round 46 to the nearest ten = 50 (N) · Round 218 to the nearest hundred = 200 (K) · Round 81 to the nearest ten = 80 (D) · Round 32 to the nearest ten = 30 (T) · Round 70 to the nearest ten = 70 (L) · Round 588 to the nearest hundred = 600 (U) · Round 5,723 to the nearest thousand = 6000 (O) · Round 1,651 to the nearest thousand = 2000 (A) · Round 533 to the nearest hundred = 500 (H) · Round 2,761 to the nearest thousand = 3000 (C) · Round 36 to the nearest ten = 40 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Justin Verlander

$90 \div 9 = 10$ · $48 \div 8 = 6$ · $25 \div 5 = 5$ · $3 \div 3 = 1$ · $33 \div 3 = 11$ · $32 \div 8 = 4$ · $120 \div 10 = 12$ · $80 \div 10 = 8$ · $108 \div 12 = 9$ · $63 \div 9 = 7$ · $24 \div 12 = 2$