The Big League Heist

Grade 6 math · Place value, Addition, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The stadium lights went dark right before the championship game. When they flickered back on, the legendary Golden Glove Trophy was missing from its glass display case behind home plate. A lone muddy cleat print was left behind on the dirt.

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 The Base Burglar is _____

Possible suspects

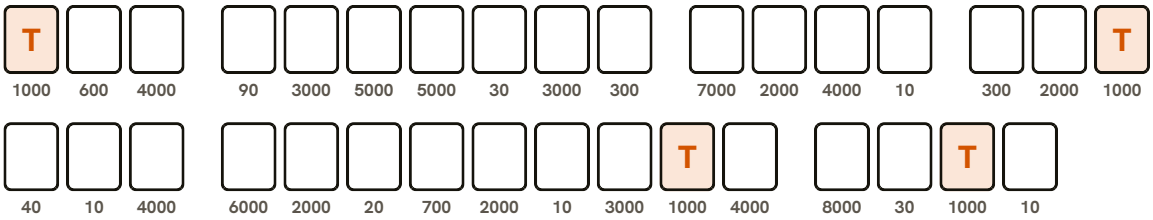
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	PITCH TYPE	LUCKY BAT	BATTING STANCE	CAP UNDERNEATH	FAVORITE SNACK
Corbin Carroll	Knuckleball	Ash wood	Left handed stance	Dark brown ponytail	Salty sunflower seeds
Bobby Witt	Knuckleball	Maple wood	Right handed stance	Spiky blonde hair	Sweet bubble gum
Zack Wheeler	Curveball	Aluminum	Right handed stance	Spiky blonde hair	Sweet bubble gum
Babe Ruthless	Fastball	Birch wood	Left handed stance	Dark brown ponytail	Salty sunflower seeds
Randy Arozarena	Slider	Ash wood	Left handed stance	Red curly locks	Hot nacho cheese
Aaron Judge	Slider	Ash wood	Right handed stance	Red curly locks	Salty sunflower seeds
Kyle Tucker	Fastball	Maple wood	Right handed stance	Red curly locks	Sweet bubble gum
Bryce Harper	Slider	Birch wood	Left handed stance	Red curly locks	Sweet bubble gum
Matt Olson	Fastball	Birch wood	Right handed stance	Spiky blonde hair	Hot nacho cheese
Ronald Acuna	Fastball	Aluminum	Left handed stance	Dark brown ponytail	Salty sunflower seeds
Gerrit Cole	Curveball	Ash wood	Left handed stance	Dark brown ponytail	Hot nacho cheese
Julio Rodriguez	Knuckleball	Maple wood	Right handed stance	Dark brown ponytail	Hot nacho cheese
Jose Ramirez	Curveball	Aluminum	Right handed stance	Red curly locks	Hot nacho cheese
Mookie Betts	Knuckleball	Aluminum	Left handed stance	Spiky blonde hair	Salty sunflower seeds
Yordan Alvarez	Fastball	Aluminum	Right handed stance	Red curly locks	Sweet bubble gum
Shohei Spark	Knuckleball	Composite	Right handed stance	Red curly locks	Sweet bubble gum
Mike Trout	Slider	Maple wood	Right handed stance	Red curly locks	Sweet bubble gum
Adley Rutschman	Changeup	Maple wood	Right handed stance	Dark brown ponytail	Sweet bubble gum
Corey Seager	Fastball	Birch wood	Left handed stance	Red curly locks	Hot nacho cheese
Austin Riley	Curveball	Maple wood	Right handed stance	Red curly locks	Sweet bubble gum
Freddie Freeman	Knuckleball	Ash wood	Left handed stance	Dark brown ponytail	Sweet bubble gum

CLUE 1 Place value

> The stadium digital scoreboard glitched and flashed a scrambled stat number. We must look at the place value of the digits to decipher the hidden security override code.

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



What is the value of the 1 in 31,727? ☐ → **T**

What is the value of the 8 in 98,561? ☐ → **B**

What is the value of the 2 in 80,323? ☐ → **M**

What is the value of the 4 in 30,940? ☐ → **U**

What is the value of the 3 in 184,387? ☐ → **N**

What is the value of the 4 in 14,579? ☐ → **E**

What is the value of the 2 in 42,510? ☐ → **O**

What is the value of the 6 in 306,803? ☐ → **C**

What is the value of the 7 in 55,702? ☐ → **P**

What is the value of the 6 in 24,625? ☐ → **H**

What is the value of the 1 in 62,417? ☐ → **S**

What is the value of the 7 in 997,362? ☐ → **D**

What is the value of the 9 in 37,592? ☐ → **V**

What is the value of the 3 in 95,437? ☐ → **A**

What is the value of the 5 in 95,484? ☐ → **L**

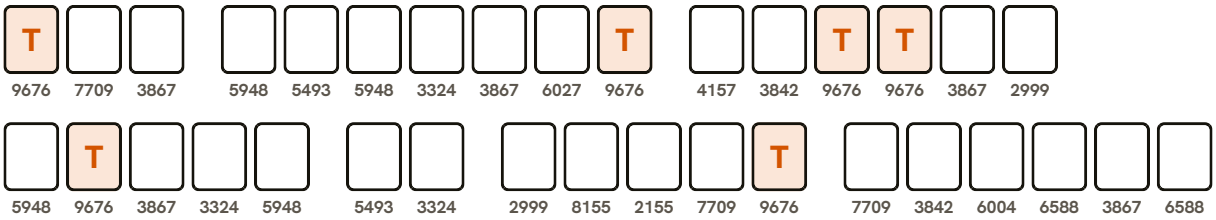
What is the value of the 3 in 653,000? ☐ → **I**

Scratch space:

CLUE 2 Addition

> We walked down the dugout and gathered all the baseballs hit into the stands during practice. Adding them up will reveal how many total balls went missing.

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



5287 + 4389 = ☐ → T	4147 + 4008 = ☐ → I	1876 + 1991 = ☐ → E
2065 + 2092 = ☐ → B	2960 + 3628 = ☐ → D	2847 + 4862 = ☐ → H
2627 + 2866 = ☐ → U	3787 + 2161 = ☐ → S	2644 + 3360 = ☐ → N
2330 + 1512 = ☐ → A	1126 + 2198 = ☐ → P	834 + 1321 = ☐ → G
3480 + 2547 = ☐ → C	1580 + 1419 = ☐ → R	

Scratch space:

CLUE 3 Subtraction

> The ticket booth reported that some championship game tickets were missing. We subtracted the tickets still in the box from the morning total to find the gap.

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

7323 - 59 = ☐ → A

11162 - 4189 = ☐ → S

5267 - 1185 = ☐ → U

10838 - 2283 = ☐ → W

7865 - 539 = ☐ → Y

13507 - 4726 = ☐ → D

11832 - 4889 = ☐ → E

9990 - 4363 = ☐ → L

3854 - 2550 = ☐ → I

4361 - 2682 = ☐ → B

6996 - 948 = ☐ → F

1972 - 269 = ☐ → R

3610 - 444 = ☐ → T

6471 - 1884 = ☐ → M

3243 - 1534 = ☐ → C

12459 - 4359 = ☐ → O

6459 - 2185 = ☐ → N

7620 - 1770 = ☐ → K

3403 - 2034 = ☐ → G

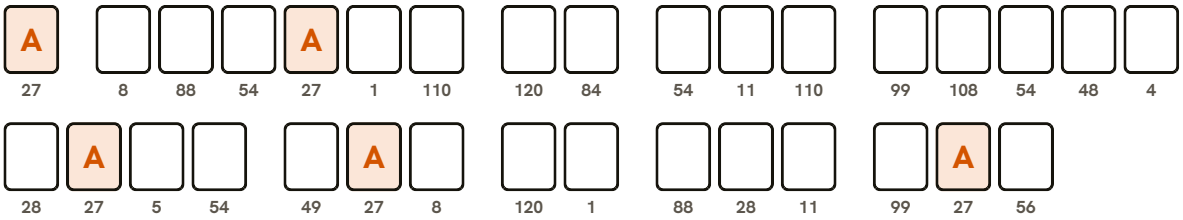
4996 - 2355 = ☐ → P

Scratch space:

CLUE 4 Multiplication facts (1-12)

> We found stacks of bat crates lined up in perfect rows near the batting cages. Multiplying the rows by the crates gives us the exact count of bats we need to search.

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



3 × 9 = ☐ → A

6 × 8 = ☐ → L

9 × 12 = ☐ → U

10 × 11 = ☐ → D

11 × 9 = ☐ → C

1 × 1 = ☐ → N

7 × 12 = ☐ → F

2 × 4 = ☐ → S

7 × 8 = ☐ → P

1 × 4 = ☐ → Y

4 × 7 = ☐ → H

7 × 7 = ☐ → W

11 × 8 = ☐ → T

6 × 9 = ☐ → R

1 × 11 = ☐ → E

10 × 12 = ☐ → O

5 × 1 = ☐ → I

Scratch space:

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

> The coach wants to divide the team training snacks evenly among the outfielders. Dividing the total treats will let us see if anyone took more than their share.

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:

144 ÷ 12 = ☐ | 14 ÷ 2 = ☐ | 9 ÷ 1 = ☐ | 10 ÷ 5 = ☐ | 30 ÷ 10 = ☐

70 ÷ 7 = ☐ | 66 ÷ 6 = ☐ | 48 ÷ 6 = ☐ | 24 ÷ 4 = ☐ | 44 ÷ 11 = ☐

40 ÷ 8 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain throws a blistering fastball, then swings a heavy maple bat.
2. The villain dances a weird knuckleball, then swings a heavy maple bat.
3. The villain throws a blistering fastball, then cracks a modern composite bat.
4. The villain drops a slow changeup, then drives a sturdy birch bat.
5. The villain slides a sharp slider, then cracks a classic ash bat.
6. The villain spins a tricky curveball, then rings a loud aluminum bat.
7. The villain spins a tricky curveball, then swings a heavy maple bat.
8. The villain drops a slow changeup, then cracks a modern composite bat.
9. The villain slides a sharp slider, then swings a heavy maple bat.
10. The villain drops a slow changeup, then cracks a classic ash bat.
11. The villain spins a tricky curveball, then drives a sturdy birch bat.
12. The villain throws a blistering fastball, then rings a loud aluminum bat.

TEACHER / PARENT

Answer Key

The Big League Heist

Culprit: Kyle Tucker

Fastball · Maple wood · Right handed stance · Red curly locks · Sweet bubble gum

Trail: Start 21 → Clue 1 20 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE COMPOSITE BATS"

What is the value of the 1 in 31,727? = 1000 (T) · What is the value of the 8 in 98,561? = 8000 (B) · What is the value of the 2 in 80,323? = 20 (M) · What is the value of the 4 in 30,940? = 40 (U) · What is the value of the 3 in 184,387? = 300 (N) · What is the value of the 4 in 14,579? = 4000 (E) · What is the value of the 2 in 42,510? = 2000 (O) · What is the value of the 6 in 306,803? = 6000 (C) · What is the value of the 7 in 55,702? = 700 (P) · What is the value of the 6 in 24,625? = 600 (H) · What is the value of the 1 in 62,417? = 10 (S) · What is the value of the 7 in 997,362? = 7000 (D) · What is the value of the 9 in 37,592? = 90 (V) · What is the value of the 3 in 95,437? = 30 (A) · What is the value of the 5 in 95,484? = 5000 (L) · What is the value of the 3 in 653,000? = 3000 (I)

Clue 2 (Addition): "THE SUSPECT BATTER STEPS UP RIGHT HANDED"

5287 + 4389 = 9676 (T) · 4147 + 4008 = 8155 (I) · 1876 + 1991 = 3867 (E) · 2065 + 2092 = 4157 (B) · 2960 + 3628 = 6588 (D) · 2847 + 4862 = 7709 (H) · 2627 + 2866 = 5493 (U) · 3787 + 2161 = 5948 (S) · 2644 + 3360 = 6004 (N) · 2330 + 1512 = 3842 (A) · 1126 + 2198 = 3324 (P) · 834 + 1321 = 2155 (G) · 3480 + 2547 = 6027 (C) · 1580 + 1419 = 2999 (R)

Clue 3 (Subtraction): "A STICKY PINK BUBBLE GUM WRAPPER WAS FOUND"

7323 - 59 = 7264 (A) · 11162 - 4189 = 6973 (S) · 5267 - 1185 = 4082 (U) · 10838 - 2283 = 8555 (W) · 7865 - 539 = 7326 (Y) · 13507 - 4726 = 8781 (D) · 11832 - 4889 = 6943 (E) · 9990 - 4363 = 5627 (L) · 3854 - 2550 = 1304 (I) · 4361 - 2682 = 1679 (B) · 6996 - 948 = 6048 (F) · 1972 - 269 = 1703 (R) · 3610 - 444 = 3166 (T) · 6471 - 1884 = 4587 (M) · 3243 - 1534 = 1709 (C) · 12459 - 4359 = 8100 (O) · 6459 - 2185 = 4274 (N) · 7620 - 1770 = 5850 (K) · 3403 - 2034 = 1369 (G) · 4996 - 2355 = 2641 (P)

Clue 4 (Multiplication facts (1-12)): "A STRAND OF RED CURLY HAIR WAS ON THE CAP"

3 × 9 = 27 (A) · 6 × 8 = 48 (L) · 9 × 12 = 108 (U) · 10 × 11 = 110 (D) · 11 × 9 = 99 (C) · 1 × 1 = 1 (N) · 7 × 12 = 84 (F) · 2 × 4 = 8 (S) · 7 × 8 = 56 (P) · 1 × 4 = 4 (Y) · 4 × 7 = 28 (H) · 7 × 7 = 49 (W) · 11 × 8 = 88 (T) · 6 × 9 = 54 (R) · 1 × 11 = 11 (E) · 10 × 12 = 120 (O) · 5 × 1 = 5 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Kyle Tucker

144 ÷ 12 = 12 · 14 ÷ 2 = 7 · 9 ÷ 1 = 9 · 10 ÷ 5 = 2 · 30 ÷ 10 = 3 · 70 ÷ 7 = 10 · 66 ÷ 6 = 11 · 48 ÷ 6 = 8 · 24 ÷ 4 = 6 · 44 ÷ 11 = 4 · 40 ÷ 8 = 5