



The Mystery of the Missing World Series Ring

Grade 8 math · Addition, Multiplication, Rounding, Word problems, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

Just hours before the championship game at Diamond Park Stadium, someone broke into the team vault and swiped the priceless World Series ring. The head groundskeeper spotted a mysterious figure fleeing across the diamond toward the dugouts. Review the clues, test the evidence, and identify the thief before initial 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 Base Bandit is _____

Possible suspects

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

NAME	PRIMARY EQUIPMENT	SIGNATURE PITCH	THROWING HAND	HAIRSTYLE	KEY VULNERABILITY
Hank Aaron	Laser Arm	Fastball Pitch	Left Handed Thrower	Buzz Cut	Bright Lights
Yordan Alvarez	Stealth Cleats	Knuckleball Pitch	Left Handed Thrower	Buzz Cut	Slippery Rosin
Clayton Kershaw	Laser Arm	Curveball Pitch	Left Handed Thrower	Curly Afro	Bright Lights
Corey Seager	Pine Tar Glove	Changeup Pitch	Left Handed Thrower	Buzz Cut	Slippery Rosin
Fernando Tatis	Stealth Cleats	Knuckleball Pitch	Left Handed Thrower	Buzz Cut	Loud Megaphones
Jose Altuve	Laser Arm	Curveball Pitch	Left Handed Thrower	Long Ponytail	Slippery Rosin
Ronald Acuna	Laser Arm	Curveball Pitch	Left Handed Thrower	Long Ponytail	Loud Megaphones
Mookie Betts	Titanium Bat	Knuckleball Pitch	Left Handed Thrower	Buzz Cut	Slippery Rosin
Bryce Harper	Stealth Cleats	Changeup Pitch	Right Handed Thrower	Long Ponytail	Bright Lights
Zack Greinke	Radar Helmet	Knuckleball Pitch	Left Handed Thrower	Curly Afro	Loud Megaphones
Max Scherzer	Titanium Bat	Curveball Pitch	Left Handed Thrower	Long Ponytail	Slippery Rosin
Julio Rodriguez	Stealth Cleats	Fastball Pitch	Right Handed Thrower	Buzz Cut	Slippery Rosin
Jackie Robinson	Radar Helmet	Fastball Pitch	Right Handed Thrower	Curly Afro	Loud Megaphones
Justin Verlander	Titanium Bat	Curveball Pitch	Left Handed Thrower	Buzz Cut	Slippery Rosin
Mike Trout	Radar Helmet	Knuckleball Pitch	Right Handed Thrower	Curly Afro	Loud Megaphones
Derek Jeter	Pine Tar Glove	Slider Pitch	Right Handed Thrower	Curly Afro	Loud Megaphones
Willie Mays	Pine Tar Glove	Knuckleball Pitch	Right Handed Thrower	Curly Afro	Slippery Rosin
Aaron Judge	Laser Arm	Slider Pitch	Left Handed Thrower	Buzz Cut	Slippery Rosin
Babe Ruth	Stealth Cleats	Slider Pitch	Left Handed Thrower	Buzz Cut	Slippery Rosin
Ken Griffey Jr	Pine Tar Glove	Curveball Pitch	Right Handed Thrower	Curly Afro	Slippery Rosin
Freddie Freeman	Radar Helmet	Knuckleball Pitch	Left Handed Thrower	Curly Afro	Bright Lights

CLUE 1

You arrive at the dugout where the head groundskeeper reports a stolen championship trophy. Tally up the total gear items logged in the equipment room to uncover the first clue.

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

$1698 + 840 = \boxed{} \rightarrow \boxed{\text{T}}$

$$3036 + 6602 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4400 + 5168 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$3184 + 3091 = \boxed{} \rightarrow \boxed{}$$

$$1676 + 1650 = \boxed{} \rightarrow \boxed{\text{R}}$$

$1112 + 893 = \square \rightarrow \text{L}$

$$5807 + 3280 = \boxed{} \rightarrow \boxed{0}$$

$$2644 + 5342 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$3121 + 4076 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$4158 + 4581 = \boxed{} \rightarrow \mathbf{D}$$

$$1288 + 1131 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1949 + 3874 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$3268 + 1977 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$3345 + 6513 = \boxed{} \rightarrow \boxed{\text{E}}$

$$4447 + 2466 = \boxed{} \rightarrow \boxed{\text{U}}$$

Scratch space:

Multiplication facts (1-12)

To track where the thief fled, calculate the grid of stadium seat rows in the outfield stands.

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

Diagram illustrating a multiplication table structure with two rows of boxes. The top row contains 12 boxes, and the bottom row contains 12 boxes. The boxes are arranged in a grid, with some boxes shaded orange and containing the letter 'T'.

Top row boxes (from left to right):

- Box 1: Shaded orange, contains 'T'. Below it is the number 3.
- Box 2: Below it is the number 16.
- Box 3: Below it is the number 8.
- Box 4: Below it is the number 64.
- Box 5: Below it is the number 144.
- Box 6: Below it is the number 64.
- Box 7: Below it is the number 84.
- Box 8: Below it is the number 8.
- Box 9: Below it is the number 48.
- Box 10: Shaded orange, contains 'T'. Below it is the number 3.
- Box 11: Shaded orange, contains 'T'. Below it is the number 3.
- Box 12: Below it is the number 16.

Bottom row boxes (from left to right):

- Box 1: Shaded orange, contains 'T'. Below it is the number 3.
- Box 2: Below it is the number 16.
- Box 3: Below it is the number 8.
- Box 4: Below it is the number 55.
- Box 5: Below it is the number 5.
- Box 6: Below it is the number 27.
- Box 7: Below it is the number 8.
- Box 8: Below it is the number 2.
- Box 9: Shaded orange, contains 'T'. Below it is the number 3.
- Box 10: Below it is the number 16.
- Box 11: Below it is the number 100.
- Box 12: Below it is the number 96.

$3 \times 1 = \boxed{} \rightarrow \boxed{\text{T}}$

$4 \times 12 = \boxed{} \rightarrow \boxed{\text{C}}$

$8 \times 1 = \boxed{} \rightarrow \boxed{\text{E}}$

$10 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$11 \times 5 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$6 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

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

$$11 \times 9 = \boxed{} \rightarrow \boxed{0}$$

$$9 \times 3 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$8 \times 2 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$5 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$1 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$7 \times 12 = \boxed{} \rightarrow \boxed{\text{P}}$

$$8 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

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

$1 \times 2 = \square \rightarrow \mathbf{F}$

Scratch space:

CLUE 3 Rounding

The pitch-speed radar gun logged the intruder sprinting across the field, but its display rounds velocity to the nearest whole number.

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

T										T								
9000	700	2000	370	1300	370	300	2000	5000	9000	110	90	370	50	1100	130	290	2000	900
3000	20	370	290	130	300	300	2000	430	20	430	1100	370	130	1700				

Round 8,843 to the nearest thousand →

T

Round 18 to the nearest ten →

Y

Round 131 to the nearest ten →

I

Round 1,661 to the nearest hundred →

N

Round 430 to the nearest ten →

R

Round 91 to the nearest ten →

A

Round 933 to the nearest hundred →

D

Round 1,315 to the nearest hundred →

U

Round 291 to the nearest ten →

L

Round 2,677 to the nearest thousand →

B

Round 109 to the nearest ten →

W

Round 372 to the nearest ten →

S

Round 51 to the nearest ten →

F

Round 4,859 to the nearest thousand →

C

Round 1,550 to the nearest thousand →

E

Round 1,077 to the nearest hundred →

O

Round 748 to the nearest hundred →

H

Round 330 to the nearest hundred →

P

Scratch space:

CLUE 4

Word problems

The stadium announcer left a cryptic message encoded in a word problem about concessions inventory.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of

B						
78	85	20	20	16	85	84

 hair turned up at the scene.

Equipment manager found 27 rosin bags yesterday and 51 more today. How many rosin bags in all?

Answer: → **B**

There were 102 catchers masks. 18 were used up. How many catchers masks are left?

Answer: → **T**

There were 56 rosin bags. 36 were used up. How many rosin bags are left?

Answer: → **Z**

Equipment manager found 18 autographed bats yesterday and 67 more today. How many autographed bats in all?

Answer: → **U**

Equipment manager lined up 8 rows of 2 baseballs. How many baseballs in all?

Answer: → **C**

Scratch space:

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

Divide the practice baseballs evenly among the bullpen buckets to reveal the final piece of evidence.

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:

$120 \div 10 = \boxed{}$

$28 \div 7 = \boxed{}$

$8 \div 1 = \boxed{}$

$99 \div 11 = \boxed{}$

$12 \div 12 = \boxed{}$

$24 \div 8 = \boxed{}$

$7 \div 1 = \boxed{}$

$121 \div 11 = \boxed{}$

$35 \div 7 = \boxed{}$

$66 \div 11 = \boxed{}$

$30 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swung a titanium bat, then threw a fastball pitch.
2. The villain wore a pine tar glove, then threw a changeup pitch.
3. The villain showed off a laser arm, then threw a fastball pitch.
4. The villain snuck with stealth cleats, then threw a knuckleball pitch.
5. The villain snuck with stealth cleats, then threw a slider pitch.
6. The villain swung a titanium bat, then threw a slider pitch.
7. The villain wore a pine tar glove, then threw a slider pitch.
8. The villain swung a titanium bat, then threw a knuckleball pitch.
9. The villain showed off a laser arm, then threw a slider pitch.
10. The villain swung a titanium bat, then threw a changeup pitch.
11. The villain wore a pine tar glove, then threw a fastball pitch.
12. The villain swung a titanium bat, then threw a curveball pitch.

Answer Key

The Mystery of the Missing World Series Ring

Culprit: Corey Seager

Pine Tar Glove · Changeup Pitch · Left Handed Thrower · Buzz Cut · Slippery Rosin

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A SLIDER PITCH"

$1698 + 840 = 2538$ (T) · $3036 + 6602 = 9638$ (H) · $4400 + 5168 = 9568$ (C) · $3184 + 3091 = 6275$ (I) · $1676 + 1650 = 3326$ (R) · $1112 + 893 = 2005$ (L) · $5807 + 3280 = 9087$ (O) · $2644 + 5342 = 7986$ (S) · $3121 + 4076 = 7197$ (P) · $4158 + 4581 = 8739$ (D) · $1288 + 1131 = 2419$ (N) · $1949 + 3874 = 5823$ (A) · $3268 + 1977 = 5245$ (V) · $3345 + 6513 = 9858$ (E) · $4447 + 2466 = 6913$ (U)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT THROWS WITH THEIR LEFT HAND"

$3 \times 1 = 3$ (T) · $4 \times 12 = 48$ (C) · $8 \times 1 = 8$ (E) · $10 \times 10 = 100$ (A) · $11 \times 5 = 55$ (I) · $6 \times 5 = 30$ (W) · $12 \times 12 = 144$ (U) · $11 \times 9 = 99$ (O) · $9 \times 3 = 27$ (L) · $8 \times 2 = 16$ (H) · $5 \times 1 = 5$ (R) · $1 \times 9 = 9$ (D) · $7 \times 12 = 84$ (P) · $8 \times 8 = 64$ (S) · $8 \times 12 = 96$ (N) · $1 \times 2 = 2$ (F)

Clue 3 (Rounding): "THE SUSPECT WAS FOILED BY SLIPPERY ROSIN"

Round 8,843 to the nearest thousand = 9000 (T) · Round 18 to the nearest ten = 20 (Y) · Round 131 to the nearest ten = 130 (I) · Round 1,661 to the nearest hundred = 1700 (N) · Round 430 to the nearest ten = 430 (R) · Round 91 to the nearest ten = 90 (A) · Round 933 to the nearest hundred = 900 (D) · Round 1,315 to the nearest hundred = 1300 (U) · Round 291 to the nearest ten = 290 (L) · Round 2,677 to the nearest thousand = 3000 (B) · Round 109 to the nearest ten = 110 (W) · Round 372 to the nearest ten = 370 (S) · Round 51 to the nearest ten = 50 (F) · Round 4,859 to the nearest thousand = 5000 (C) · Round 1,550 to the nearest thousand = 2000 (E) · Round 1,077 to the nearest hundred = 1100 (O) · Round 748 to the nearest hundred = 700 (H) · Round 330 to the nearest hundred = 300 (P)

Clue 4 (Word problems): "BUZZ CUT"

Equipment manager found 27 rosin bags yesterday and 51 more today. How many rosin bags in all? = 78 (B) · There were 102 catchers masks. 18 were used up. How many catchers masks are left? = 84 (T) · There were 56 rosin bags. 36 were used up. How many rosin bags are left? = 20 (Z) · Equipment manager found 18 autographed bats yesterday and 67 more today. How many autographed bats in all? = 85 (U) · Equipment manager lined up 8 rows of 2 baseballs. How many baseballs in all? = 16 (C)

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

$120 \div 10 = 12$ · $28 \div 7 = 4$ · $8 \div 1 = 8$ · $99 \div 11 = 9$ · $12 \div 12 = 1$ · $24 \div 8 = 3$ · $7 \div 1 = 7$ · $121 \div 11 = 11$ · $35 \div 7 = 5$ · $66 \div 11 = 6$ · $30 \div 3 = 10$