



The Mascot Mask Mystery

Grade 9 math · Addition, Multiplication, Rounding, Skip counting, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone swapped the official championship baseballs with bouncy rubber balls right before the big game! Coach Rivera needs your detective skills to inspect the dugout, solve math clues, and catch the prankster.

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 prankster 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	STANCE HABIT	CAP COLOR	WEAK PITCH
Buster Posey	Knuckleball	Pine Tar Bat	Adjusts Cap	Navy Blue Cap	High Heat
Roberto Clemente	Slider	Pine Tar Bat	Taps Plate	Navy Blue Cap	Outer Edge
Pedro Martinez	Knuckleball	Diamond Ring	Taps Plate	Navy Blue Cap	Outer Edge
Aaron Judge	Knuckleball	Diamond Ring	Adjusts Cap	Navy Blue Cap	Outer Edge
Babe Ruth	Curveball	Custom Helmet	Adjusts Cap	Emerald Green Cap	High Heat
Bryce Harper	Curveball	Gold Glove	Adjusts Cap	Bright Red Cap	Outer Edge
Hank Aaron	Changeup	Custom Helmet	Taps Plate	Navy Blue Cap	Outer Edge
Max Scherzer	Curveball	Diamond Ring	Taps Plate	Navy Blue Cap	Outer Edge
Willie Mays	Knuckleball	Neon Cleats	Adjusts Cap	Bright Red Cap	Outer Edge
Shohei Ohtani	Slider	Gold Glove	Adjusts Cap	Navy Blue Cap	Outer Edge
Lou Gehrig	Changeup	Diamond Ring	Adjusts Cap	Bright Red Cap	Outer Edge
Ken Griffey	Curveball	Neon Cleats	Adjusts Cap	Bright Red Cap	Low Sink
Freddie Freeman	Knuckleball	Custom Helmet	Adjusts Cap	Emerald Green Cap	High Heat
Justin Verlander	Curveball	Pine Tar Bat	Adjusts Cap	Navy Blue Cap	Outer Edge
Nolan Ryan	Slider	Diamond Ring	Adjusts Cap	Navy Blue Cap	Outer Edge
Ted Williams	Curveball	Neon Cleats	Adjusts Cap	Navy Blue Cap	Outer Edge
David Ortiz	Curveball	Pine Tar Bat	Adjusts Cap	Emerald Green Cap	High Heat
Cal Ripken	Curveball	Diamond Ring	Taps Plate	Emerald Green Cap	High Heat
Mike Trout	Fastball	Custom Helmet	Taps Plate	Navy Blue Cap	High Heat
Clayton Kershaw	Changeup	Neon Cleats	Adjusts Cap	Bright Red Cap	High Heat
Mookie Betts	Knuckleball	Gold Glove	Taps Plate	Bright Red Cap	Low Sink

CLUE 1 Addition

Count up the extra baseballs found near the bullpen to unlock the first clue.

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

T

 T

5302 8326 9144
 5409 7556 8700 8700 5539 7556 9176
 2132 2954 9144 4172
 9176 2954 5302

 T

3351 9144 5539 4932
 9176 9144 2954 9176
 9696 8700 9144 5539 5302 4172

$1886 + 3416 = \boxed{} \rightarrow \boxed{\text{T}}$

$1780 + 1174 = \boxed{} \rightarrow \boxed{\text{O}}$

$3249 + 6447 = \boxed{} \rightarrow \boxed{\text{C}}$

$4319 + 4381 = \boxed{} \rightarrow \boxed{\text{L}}$

$4466 + 3090 = \boxed{} \rightarrow \boxed{\text{I}}$

$1218 + 2133 = \boxed{} \rightarrow \boxed{\text{W}}$

$4316 + 4828 = \boxed{} \rightarrow \boxed{\text{E}}$

$2087 + 3322 = \boxed{} \rightarrow \boxed{\text{V}}$

$986 + 1146 = \boxed{} \rightarrow \boxed{\text{D}}$

$2946 + 1986 = \boxed{} \rightarrow \boxed{\text{R}}$

$3346 + 2193 = \boxed{} \rightarrow \boxed{\text{A}}$

$4324 + 4002 = \boxed{} \rightarrow \boxed{\text{H}}$

$2586 + 1586 = \boxed{} \rightarrow \boxed{\text{S}}$

$6417 + 2759 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 2

Multiplication facts (1-12)

Check the equal rows of helmets in the dugout to solve this clue.

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

T										T							
5	42	28	30	15	30	14	28	110	5	12	36	30	30	28	28	20	
					T					T							
36	54	21	15	30	5	4	20	33	5	42	28	4	7	110	36	14	

$1 \times 5 = \square \rightarrow \boxed{\text{T}}$

$7 \times 6 = \square \rightarrow \boxed{\text{H}}$

$3 \times 10 = \square \rightarrow \boxed{\text{S}}$

$5 \times 4 = \square \rightarrow \boxed{\text{N}}$

$7 \times 3 = \square \rightarrow \boxed{\text{J}}$

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

$3 \times 11 = \square \rightarrow \boxed{\text{G}}$

$9 \times 6 = \square \rightarrow \boxed{\text{D}}$

$1 \times 4 = \square \rightarrow \boxed{\text{I}}$

$11 \times 10 = \square \rightarrow \boxed{\text{C}}$

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

$9 \times 4 = \square \rightarrow \boxed{\text{A}}$

$4 \times 3 = \square \rightarrow \boxed{\text{W}}$

$7 \times 2 = \square \rightarrow \boxed{\text{P}}$

$1 \times 7 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 3
Rounding

The pitch speed on the radar display rounds to the nearest ten.

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

T						T	T					T						
9000	1100	2000	90	130	370	9000	9000	1100	1700	90	7000	9000	1700	2000	1700	70	50	1700

T				
9000	90	130	2300	2900

Round 8,507 to the nearest thousand

→ **T**

Round 1,123 to the nearest hundred

→ **H**

Round 54 to the nearest ten

→ **G**

Round 2,346 to the nearest hundred

→ **I**

Round 2,917 to the nearest hundred

→ **N**

Round 94 to the nearest ten

→ **O**

Round 1,675 to the nearest hundred

→ **E**

Round 131 to the nearest ten

→ **W**

Round 73 to the nearest ten

→ **D**

Round 6,794 to the nearest thousand

→ **U**

Round 372 to the nearest ten

→ **A**

Round 2,463 to the nearest thousand

→ **R**

Scratch space:

CLUE 4 Skip counting

Count by tens along the foul line to find the hidden code.

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

F																		
22	26	33	50	28	55	50	55	36	130	18	35	33	120	140	55	21	55	40

8	26	24	120	21	35	55	40	120

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **F**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **P**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **L**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 → **B**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **V**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **M**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **C**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **Y**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **U**

Scratch space:

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

Divide the practice bats evenly into racks to get the final clue.

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:

$2 \div 2 = \boxed{}$

$24 \div 8 = \boxed{}$

$66 \div 11 = \boxed{}$

$9 \div 1 = \boxed{}$

$4 \div 2 = \boxed{}$

$48 \div 12 = \boxed{}$

$70 \div 7 = \boxed{}$

$84 \div 12 = \boxed{}$

$60 \div 12 = \boxed{}$

$80 \div 10 = \boxed{}$

$12 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain slid a tricky slider, then showed off a diamond ring.
2. The villain floated a slow changeup, then tapped a custom helmet.
3. The villain danced a wild knuckleball, then showed off a diamond ring.
4. The villain snapped a sharp curveball, then laced up neon cleats.
5. The villain slid a tricky slider, then tapped a custom helmet.
6. The villain slid a tricky slider, then flashed a gold glove.
7. The villain floated a slow changeup, then laced up neon cleats.
8. The villain threw a blazing fastball, then swung a pine tar bat.
9. The villain snapped a sharp curveball, then flashed a gold glove.
10. The villain threw a blazing fastball, then laced up neon cleats.
11. The villain snapped a sharp curveball, then swung a pine tar bat.
12. The villain floated a slow changeup, then swung a pine tar bat.

Answer Key

The Mascot Mask Mystery

Culprit: Justin Verlander

Curveball · Pine Tar Bat · Adjusts Cap · Navy Blue Cap · Outer Edge

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT WEAR NEON CLEATS"

$1886 + 3416 = 5302$ (T) · $1780 + 1174 = 2954$ (O) · $3249 + 6447 = 9696$ (C) · $4319 + 4381 = 8700$ (L) · $4466 + 3090 = 7556$ (I) · $1218 + 2133 = 3351$ (W) · $4316 + 4828 = 9144$ (E) · $2087 + 3322 = 5409$ (V) · $986 + 1146 = 2132$ (D) · $2946 + 1986 = 4932$ (R) · $3346 + 2193 = 5539$ (A) · $4324 + 4002 = 8326$ (H) · $2586 + 1586 = 4172$ (S) · $6417 + 2759 = 9176$ (N)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT WAS SEEN ADJUSTING THEIR CAP"

$1 \times 5 = 5$ (T) · $7 \times 6 = 42$ (H) · $3 \times 10 = 30$ (S) · $5 \times 4 = 20$ (N) · $7 \times 3 = 21$ (J) · $5 \times 3 = 15$ (U) · $3 \times 11 = 33$ (G) · $9 \times 6 = 54$ (D) · $1 \times 4 = 4$ (I) · $11 \times 10 = 110$ (C) · $4 \times 7 = 28$ (E) · $9 \times 4 = 36$ (A) · $4 \times 3 = 12$ (W) · $7 \times 2 = 14$ (P) · $1 \times 7 = 7$ (R)

Clue 3 (Rounding): "THROW AT THE OUTER EDGE TO WIN"

Round 8,507 to the nearest thousand = 9000 (T) · Round 1,123 to the nearest hundred = 1100 (H) · Round 54 to the nearest ten = 50 (G) · Round 2,346 to the nearest hundred = 2300 (I) · Round 2,917 to the nearest hundred = 2900 (N) · Round 94 to the nearest ten = 90 (O) · Round 1,675 to the nearest hundred = 1700 (E) · Round 131 to the nearest ten = 130 (W) · Round 73 to the nearest ten = 70 (D) · Round 6,794 to the nearest thousand = 7000 (U) · Round 372 to the nearest ten = 370 (A) · Round 2,463 to the nearest thousand = 2000 (R)

Clue 4 (Skip counting): "FOUND A NAVY BLUE CAP AT HOME PLATE"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (L) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (B) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (V) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (M) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 150, 160 = 140 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (Y) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (U)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Justin Verlander

$2 \div 2 = 1$ · $24 \div 8 = 3$ · $66 \div 11 = 6$ · $9 \div 1 = 9$ · $4 \div 2 = 2$ · $48 \div 12 = 4$ · $70 \div 7 = 10$ · $84 \div 12 = 7$ · $60 \div 12 = 5$ · $80 \div 10 = 8$ · $12 \div 1 = 12$