



The Clubhouse Cup Caper

Grade 10 math · Addition, Subtraction, Multiplication, Fractions of a number · Reading level grades 7-9

Detective: _____ Date: _____

The legendary Golden Batting Glove has vanished from its display case in the Progressive Field clubhouse right before the big game! The culprit left behind baseball gear and mysterious stats. We need to solve the clues to unmask the Clubhouse Phantom!

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 Clubhouse Phantom 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	PRE-GAME SNACK	BATTING HAND	CAP COLOR	PITCHING WEAKNESS
Andres Gimenez	Splitter	Peanuts	Left-Handed	White Cap	Low Sliders
Daniel Espino	Sweeper	Peanuts	Left-Handed	Red Cap	High Fastballs
Tanner Bibee	Knuckleball	Sunflower Seeds	Right-Handed	White Cap	Low Sliders
Triston McKenzie	Cutter	Peanuts	Left-Handed	White Cap	Low Sliders
Austin Hedges	Sinker	Licorice	Left-Handed	White Cap	Low Sliders
Jhonkensy Noel	Sweeper	Licorice	Left-Handed	Navy Cap	High Fastballs
Jose Ramirez	Splitter	Peanuts	Left-Handed	White Cap	High Fastballs
Ben Lively	Cutter	Bubble Gum	Left-Handed	Navy Cap	Low Sliders
Kyle Manzardo	Sinker	Bubble Gum	Left-Handed	White Cap	Inside Cutters
Josh Naylor	Splitter	Sunflower Seeds	Right-Handed	Red Cap	Inside Cutters
David Fry	Sweeper	Sunflower Seeds	Left-Handed	Navy Cap	High Fastballs
Steven Kwan	Splitter	Bubble Gum	Left-Handed	White Cap	Low Sliders
Gavin Williams	Sweeper	Licorice	Right-Handed	Navy Cap	Low Sliders
Cade Smith	Splitter	Peanuts	Left-Handed	Navy Cap	Inside Cutters
Carlos Carrasco	Sweeper	Peanuts	Right-Handed	White Cap	Inside Cutters
Angel Martinez	Knuckleball	Bubble Gum	Right-Handed	Red Cap	High Fastballs
Hunter Gaddis	Sweeper	Sunflower Seeds	Right-Handed	Navy Cap	High Fastballs
Emmanuel Clase	Sinker	Energy Drinks	Right-Handed	Navy Cap	Low Sliders
Eli Morgan	Sinker	Sunflower Seeds	Left-Handed	White Cap	Inside Cutters
Will Brennan	Cutter	Sunflower Seeds	Left-Handed	Navy Cap	Low Sliders
Brayan Rocchio	Knuckleball	Sunflower Seeds	Left-Handed	White Cap	Low Sliders

CLUE 1 Addition

To find the first clue we need to add up the total number of bats delivered to the dugout this morning. The clubhouse manager counted the wooden bats in two separate equipment bags.

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

T						T										T
6206	7949	2561	7194	7949	6913	4066	6206	6409	5870	6858	6409	2561	6532	4066	6409	6206

		T						
2561	6913	6206	2445	7550	6119	6409	4470	7550

$2131 + 4075 = \square \rightarrow \boxed{\text{T}}$

$3878 + 3035 = \square \rightarrow \boxed{\text{A}}$

$1603 + 2463 = \square \rightarrow \boxed{\text{N}}$

$937 + 1624 = \square \rightarrow \boxed{\text{E}}$

$2908 + 1562 = \square \rightarrow \boxed{\text{R}}$

$4521 + 2673 = \square \rightarrow \boxed{\text{P}}$

$795 + 1650 = \square \rightarrow \boxed{\text{L}}$

$4149 + 2260 = \square \rightarrow \boxed{\text{O}}$

$3472 + 2398 = \square \rightarrow \boxed{\text{M}}$

$2926 + 3193 = \square \rightarrow \boxed{\text{C}}$

$2663 + 4887 = \square \rightarrow \boxed{\text{I}}$

$2027 + 4505 = \square \rightarrow \boxed{\text{S}}$

$2685 + 5264 = \square \rightarrow \boxed{\text{H}}$

$3675 + 3183 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 2

The assistant coach noticed some stolen baseballs were missing from the practice bucket. If we subtract the remaining baseballs from the starting amount the difference reveals a hidden message.

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

2822 1101 3723 3348 4880 3348 3771 3723 6969 2822 1020 3362 2822 3348 7372 3723 5767 2822 1101 3362 8476 7338 3723 7338

$$3505 - 683 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$3346 - 2245 = \boxed{} \rightarrow \boxed{\text{H}}$$

$12484 - 4008 = \boxed{} \rightarrow \boxed{\text{N}}$

$$6141 - 2370 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$10545 - 3173 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$3930 - 582 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4022 - 299 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$5386 - 506 = \boxed{} \rightarrow \boxed{\text{U}}$$

$7548 - 1781 = \boxed{} \rightarrow \boxed{\text{F}}$

$$8031 - 693 = \boxed{} \rightarrow \boxed{\text{D}}$$

$9558 - 2589 = \boxed{} \rightarrow \boxed{\text{C}}$

$$4311 - 3291 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

$$8044 - 4682 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

Scratch space:

CLUE 3
Multiplication facts (1-12)

The grounds crew lined up the field markers in equal rows along the third base line. Multiplying the rows by the markers per row gives us the combination to the locker containing a lost cap.

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

T																			
120	14	121	28	25	28	21	121	77	120	77	27	50	50	63	120	14	2	120	
4	63	15	28	4	2	96	121	99	28										

$12 \times 10 = \square \rightarrow \text{ T }$

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

$9 \times 7 = \square \rightarrow \text{ O }$

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

$3 \times 5 = \square \rightarrow \text{ W }$

$7 \times 3 = \square \rightarrow \text{ P }$

$11 \times 9 = \square \rightarrow \text{ R }$

$11 \times 11 = \square \rightarrow \text{ E }$

$5 \times 10 = \square \rightarrow \text{ N }$

$1 \times 2 = \square \rightarrow \text{ I }$

$9 \times 3 = \square \rightarrow \text{ A }$

$7 \times 4 = \square \rightarrow \text{ S }$

$2 \times 7 = \square \rightarrow \text{ H }$

$2 \times 2 = \square \rightarrow \text{ L }$

$7 \times 11 = \square \rightarrow \text{ C }$

Scratch space:

CLUE 4
Fractions of a number

We found a logbook showing a fraction of the teams batting practice runs. Calculating this fraction of the total runs points us to a scouting report about the suspects batting weakness.

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

A							A			A							
13	12	46	21	4	33	20	13	39	12	13	58	9	33	44	4	21	2
4	46	33	27	35	8	40	35	4									

$1/8 \text{ of } 104 = \boxed{} \rightarrow \boxed{\text{A}}$

$2/8 \text{ of } 108 = \boxed{} \rightarrow \boxed{\text{D}}$

$2/8 \text{ of } 80 = \boxed{} \rightarrow \boxed{\text{C}}$

$4/6 \text{ of } 3 = \boxed{} \rightarrow \boxed{\text{N}}$

$3/4 \text{ of } 12 = \boxed{} \rightarrow \boxed{\text{L}}$

$5/10 \text{ of } 92 = \boxed{} \rightarrow \boxed{\text{H}}$

$3/5 \text{ of } 55 = \boxed{} \rightarrow \boxed{\text{E}}$

$1/2 \text{ of } 70 = \boxed{} \rightarrow \boxed{\text{U}}$

$2/6 \text{ of } 24 = \boxed{} \rightarrow \boxed{\text{G}}$

$4/6 \text{ of } 18 = \boxed{} \rightarrow \boxed{\text{W}}$

$3/6 \text{ of } 80 = \boxed{} \rightarrow \boxed{\text{O}}$

$4/8 \text{ of } 116 = \boxed{} \rightarrow \boxed{\text{S}}$

$1/4 \text{ of } 156 = \boxed{} \rightarrow \boxed{\text{P}}$

$4/8 \text{ of } 42 = \boxed{} \rightarrow \boxed{\text{I}}$

$2/5 \text{ of } 10 = \boxed{} \rightarrow \boxed{\text{T}}$

$2/6 \text{ of } 132 = \boxed{} \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

A fraction of the stadium lights were flickering in a strange pattern. Figuring out exactly how many lights that fraction represents unlocks the final video file of the phantoms swing.

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:

$2/10 \text{ of } 25 = \boxed{}$

$1/8 \text{ of } 88 = \boxed{}$

$1/6 \text{ of } 72 = \boxed{}$

$2/3 \text{ of } 15 = \boxed{}$

$1/8 \text{ of } 56 = \boxed{}$

$4/8 \text{ of } 18 = \boxed{}$

$1/3 \text{ of } 9 = \boxed{}$

$1/4 \text{ of } 8 = \boxed{}$

$4/10 \text{ of } 20 = \boxed{}$

$2/6 \text{ of } 3 = \boxed{}$

$2/5 \text{ of } 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain throws a nasty sweeper, then leaves empty energy drink cans behind.
2. The villain hurls a heavy sinker, then spits sunflower seed shells everywhere.
3. The villain drops a sudden splitter, then leaves empty energy drink cans behind.
4. The villain throws a nasty sweeper, then scatters peanut shells in the locker.
5. The villain drops a sudden splitter, then scatters peanut shells in the locker.
6. The villain slashes a sharp cutter, then scatters peanut shells in the locker.
7. The villain hurls a heavy sinker, then drops red licorice wrappers on the turf.
8. The villain throws a nasty sweeper, then spits sunflower seed shells everywhere.
9. The villain tosses a dancing knuckleball, then leaves empty energy drink cans behind.
10. The villain tosses a dancing knuckleball, then scatters peanut shells in the locker.
11. The villain drops a sudden splitter, then blows giant sticky bubbles of gum.
12. The villain tosses a dancing knuckleball, then spits sunflower seed shells everywhere.

Answer Key

The Clubhouse Cup Caper

Culprit: Triston McKenzie

Cutter · Peanuts · Left-Handed · White Cap · Low Sliders

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

Clue 1 (Addition): "THE PHANTOM DOES NOT EAT LICORICE"

$2131 + 4075 = 6206$ (T) · $3878 + 3035 = 6913$ (A) · $1603 + 2463 = 4066$ (N) · $937 + 1624 = 2561$ (E) · $2908 + 1562 = 4470$ (R) · $4521 + 2673 = 7194$ (P) · $795 + 1650 = 2445$ (L) · $4149 + 2260 = 6409$ (O) · $3472 + 2398 = 5870$ (M) · $2926 + 3193 = 6119$ (C) · $2663 + 4887 = 7550$ (I) · $2027 + 4505 = 6532$ (S) · $2685 + 5264 = 7949$ (H) · $3675 + 3183 = 6858$ (D)

Clue 2 (Subtraction): "THE SUSPECT BATS LEFT HANDED"

$3505 - 683 = 2822$ (T) · $3346 - 2245 = 1101$ (H) · $12484 - 4008 = 8476$ (N) · $6141 - 2370 = 3771$ (P) · $10545 - 3173 = 7372$ (L) · $3930 - 582 = 3348$ (S) · $4022 - 299 = 3723$ (E) · $5386 - 506 = 4880$ (U) · $7548 - 1781 = 5767$ (F) · $8031 - 693 = 7338$ (D) · $9558 - 2589 = 6969$ (C) · $4311 - 3291 = 1020$ (B) · $8044 - 4682 = 3362$ (A)

Clue 3 (Multiplication facts (1-12)): "THE SUSPECT CANNOT HIT LOW SLIDERS"

$12 \times 10 = 120$ (T) · $12 \times 8 = 96$ (D) · $9 \times 7 = 63$ (O) · $5 \times 5 = 25$ (U) · $3 \times 5 = 15$ (W) · $7 \times 3 = 21$ (P) · $11 \times 9 = 99$ (R) · $11 \times 11 = 121$ (E) · $5 \times 10 = 50$ (N) · $1 \times 2 = 2$ (I) · $9 \times 3 = 27$ (A) · $7 \times 4 = 28$ (S) · $2 \times 7 = 14$ (H) · $2 \times 2 = 4$ (L) · $7 \times 11 = 77$ (C)

Clue 4 (Fractions of a number): "A WHITE CAP WAS LEFT IN THE DUGOUT"

$1/8$ of 104 = 13 (A) · $2/8$ of 108 = 27 (D) · $2/8$ of 80 = 20 (C) · $4/6$ of 3 = 2 (N) · $3/4$ of 12 = 9 (L) · $5/10$ of 92 = 46 (H) · $3/5$ of 55 = 33 (E) · $1/2$ of 70 = 35 (U) · $2/6$ of 24 = 8 (G) · $4/6$ of 18 = 12 (W) · $3/6$ of 80 = 40 (O) · $4/8$ of 116 = 58 (S) · $1/4$ of 156 = 39 (P) · $4/8$ of 42 = 21 (I) · $2/5$ of 10 = 4 (T) · $2/6$ of 132 = 44 (F)

Clue 5 (Fractions of a number): surviving statement is box 6 → Triston McKenzie

$2/10$ of 25 = 5 · $1/8$ of 88 = 11 · $1/6$ of 72 = 12 · $2/3$ of 15 = 10 · $1/8$ of 56 = 7 · $4/8$ of 18 = 9 · $1/3$ of 9 = 3 · $1/4$ of 8 = 2 · $4/10$ of 20 = 8 · $2/6$ of 3 = 1 · $2/5$ of 10 = 4