The Wrigley Field Globe Heist

Grade 10 math · Fractions of a number, Multiplication, Pythagorean theorem, Square roots, Missing addends · Reading level grades 7-9

Detective: _____ **Date:** _____

A mysterious rogue has hacked the Great Museum of Global Eras in Chicago, right down the street from Wrigley Field! The suspect stole the legendary 1908 Cubs World Series Ring from the Geography Pavilion and locked the database with a Blooket-style security trivia firewall. Using clues from history, music, and baseball, we must solve the grid to identify the true hacker before they delete the museum files forever!

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 Hologram Glitcher is _____

Possible suspects

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

NAME	PRIMARY ABILITY	SECONDARY ACTION	SPOTTED ACCESSORY	HEADWEAR STYLE	VULNERABILITY
Captain Cody	Continental Drift Shift	Historic Speech Echo	Wears a Right Glove	Powdered Wig	Laser Pointer Distraction
Joan of Arc	Wrigley Ivy Camouflage	Gravity Defying Lean	Wears a Left Glove	Powdered Wig	Laser Pointer Distraction
Harry Caray	Timeline Acceleration	Ivy Wall Climbing	Wears a Right Glove	Powdered Wig	Trivia Timer Timeout
Marco Polo	Blook Multiplier	Historic Speech Echo	Wears a Right Glove	Curly Black Fedora Hat	Wrigley Field Organ Music
Addison Street	Moonwalk Teleportation	Gravity Defying Lean	Wears a Right Glove	Powdered Wig	Laser Pointer Distraction
Ernie Banks	Continental Drift Shift	Map Grid Warp	Wears a Right Glove	Curly Black Fedora Hat	Laser Pointer Distraction
Gold Quest Gary	Wrigley Ivy Camouflage	Gold Quest Steal	Wears a Right Glove	Cubs Blue Baseball Cap	Wrigley Field Organ Music
Ron Santo	Blook Multiplier	Gold Quest Steal	Wears a Right Glove	Cubs Blue Baseball Cap	Trivia Timer Timeout
Ben Franklin	Timeline Acceleration	Ivy Wall Climbing	Wears a Left Glove	Curly Black Fedora Hat	Laser Pointer Distraction
Billy Williams	Wrigley Ivy Camouflage	Gravity Defying Lean	Wears a Right Glove	Cubs Blue Baseball Cap	Laser Pointer Distraction
Captain Cook	Blook Multiplier	Historic Speech Echo	Wears a Left Glove	Cubs Blue Baseball Cap	Laser Pointer Distraction
Agent Mac	Continental Drift Shift	Ivy Wall Climbing	Wears a Right Glove	Powdered Wig	Trivia Timer Timeout
Sammy Sosa	Timeline Acceleration	Gravity Defying Lean	Wears a Left Glove	Powdered Wig	Trivia Timer Timeout
King Tut	Blook Multiplier	Gravity Defying Lean	Wears a Right Glove	Curly Black Fedora Hat	Laser Pointer Distraction
Clark Street	Continental Drift Shift	Gold Quest Steal	Wears a Right Glove	Curly Black Fedora Hat	Laser Pointer Distraction
Magellan	Continental Drift Shift	Gold Quest Steal	Wears a Left Glove	Powdered Wig	Trivia Timer Timeout
Jackie Robinson	Blook Multiplier	Gold Quest Steal	Wears a Right Glove	Curly Black Fedora Hat	Laser Pointer Distraction
Ryne Sandberg	Wrigley Ivy Camouflage	Gravity Defying Lean	Wears a Left Glove	Powdered Wig	Trivia Timer Timeout
Winston Churchill	Continental Drift Shift	Gold Quest Steal	Wears a Left Glove	Cubs Blue Baseball Cap	Trivia Timer Timeout
Cleopatra	Timeline Acceleration	Gravity Defying Lean	Wears a Left Glove	Curly Black Fedora Hat	Laser Pointer Distraction
Amelia Earhart	Blook Multiplier	Ivy Wall Climbing	Wears a Right Glove	Curly Black Fedora Hat	Laser Pointer Distraction

CLUE 1 Fractions of a number

> To unlock the geographical archives, we must calculate what fraction of the world's historic maps were scanned correctly.

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

T								T									T		
19	3	39	59	51	59	37	39	55	19	2	45	39	59	21	45	19			
51	59	39	8	27	37	14	25	56	2	44	27	25	37						

2/10 of 95 = ☐ → T

3/5 of 75 = ☐ → O

1/4 of 32 = ☐ → M

6/10 of 65 = ☐ → E

1/6 of 12 = ☐ → D

2/10 of 125 = ☐ → R

2/8 of 148 = ☐ → P

3/6 of 42 = ☐ → N

7/10 of 80 = ☐ → I

2/6 of 132 = ☐ → W

1/2 of 54 = ☐ → A

5/10 of 6 = ☐ → H

1/3 of 177 = ☐ → S

4/8 of 102 = ☐ → U

2/3 of 21 = ☐ → G

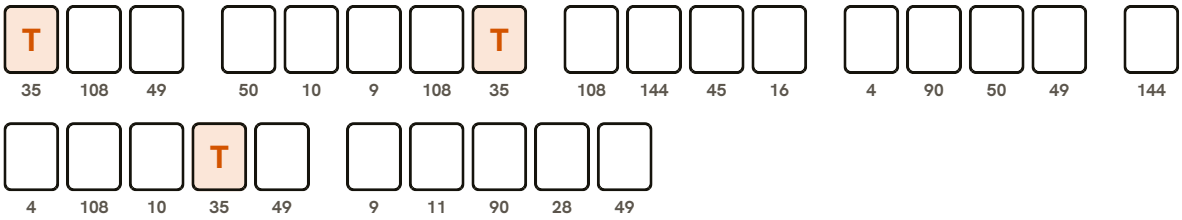
2/6 of 165 = ☐ → C

Scratch space:

CLUE 2 Multiplication facts (1-12)

> The suspect cloned multiple Blook avatars in rectangular rows, and we need to multiply the grid dimensions to count them.

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



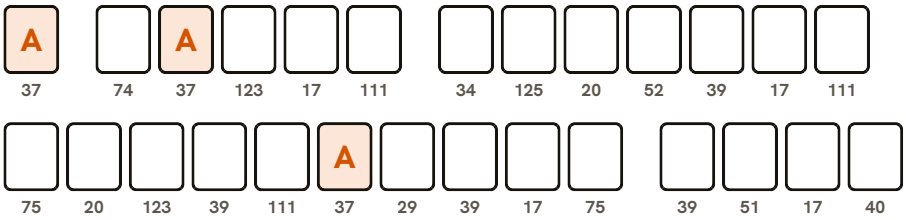
7 × 5 = ☐ → T	5 × 9 = ☐ → N	1 × 11 = ☐ → L
9 × 10 = ☐ → O	7 × 4 = ☐ → V	7 × 7 = ☐ → E	5 × 2 = ☐ → I
4 × 4 = ☐ → D	12 × 9 = ☐ → H	10 × 5 = ☐ → R
2 × 2 = ☐ → W	12 × 12 = ☐ → A	3 × 3 = ☐ → G

Scratch space:

CLUE 3 Pythagorean theorem

> To track the exact diagonal escape route from home plate to the outfield wall, we must calculate the hypotenuse of the path.

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



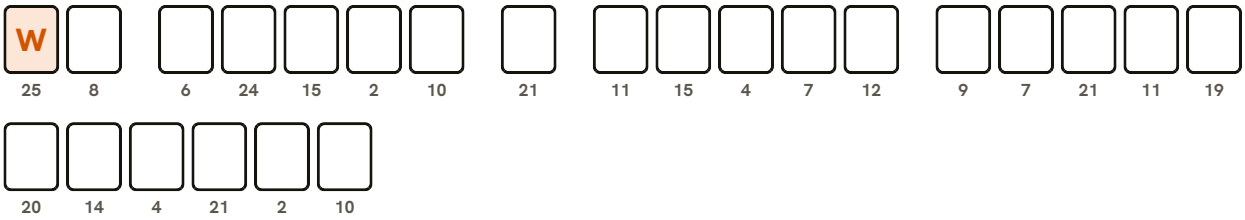
legs 12 and 35, hypotenuse = ☐ → A	legs 24 and 45, hypotenuse = ☐ → H
legs 15 and 36, hypotenuse = ☐ → T	legs 24 and 32, hypotenuse = ☐ → M
legs 12 and 16, hypotenuse = ☐ → I	legs 24 and 70, hypotenuse = ☐ → L
legs 20 and 21, hypotenuse = ☐ → C	legs 27 and 120, hypotenuse = ☐ → S
legs 20 and 48, hypotenuse = ☐ → N	legs 8 and 15, hypotenuse = ☐ → E
legs 36 and 105, hypotenuse = ☐ → R	legs 16 and 30, hypotenuse = ☐ → P
legs 21 and 72, hypotenuse = ☐ → D	legs 35 and 120, hypotenuse = ☐ → O

Scratch space:

CLUE 4 Square roots

> The locked vault containing the historic MJ performance glove requires us to find the square root of the security grid's area.

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



sqrt(625) = ☐ → W

sqrt(121) = ☐ → C

sqrt(64) = ☐ → E

sqrt(81) = ☐ → B

sqrt(400) = ☐ → S

sqrt(196) = ☐ → T

sqrt(361) = ☐ → K

sqrt(16) = ☐ → R

sqrt(36) = ☐ → F

sqrt(4) = ☐ → N

sqrt(441) = ☐ → A

sqrt(100) = ☐ → D

sqrt(49) = ☐ → L

sqrt(576) = ☐ → O

sqrt(225) = ☐ → U

sqrt(144) = ☐ → Y

Scratch space:

CLUE 5 Missing addends - the last clue

> The Chicago Cubs run-scoring tally is missing a game's score, and we must find the missing number to balance the season total.

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:

9 + ___ = 17 ☐	17 + ___ = 21 ☐	38 + ___ = 50 ☐	5 + ___ = 16 ☐
29 + ___ = 38 ☐	40 + ___ = 45 ☐	21 + ___ = 31 ☐	27 + ___ = 33 ☐
26 + ___ = 27 ☐	1 + ___ = 4 ☐	28 + ___ = 35 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain blends directly into the Wrigley ivy, then steals all the gold in Gold Quest.
2. The villain summons a massive horde of Blooks, then climbs up a brick ivy wall.
3. The villain summons a massive horde of Blooks, then warps across the world map.
4. The villain summons a massive horde of Blooks, then steals all the gold in Gold Quest.
5. The villain speeds up the historical timeline, then steals all the gold in Gold Quest.
6. The villain teleports away using a smooth moonwalk, then warps across the world map.
7. The villain blends directly into the Wrigley ivy, then broadcasts a famous historical speech.
8. The villain summons a massive horde of Blooks, then performs a gravity defying lean.
9. The villain shifts the local coordinates by ten miles, then broadcasts a famous historical speech.
10. The villain shifts the local coordinates by ten miles, then warps across the world map.
11. The villain shifts the local coordinates by ten miles, then climbs up a brick ivy wall.
12. The villain shifts the local coordinates by ten miles, then steals all the gold in Gold Quest.

TEACHER / PARENT

Answer Key

The Wrigley Field Globe Heist

Culprit: Amelia Earhart

Blook Multiplier · Ivy Wall Climbing · Wears a Right Glove · Curly Black Fedora Hat · Laser Pointer Distraction

Trail: Start 21 → Clue 1 20 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SUSPECT DOES NOT USE MAP GRID WARP"

2/10 of 95 = 19 (T) · 3/5 of 75 = 45 (O) · 1/4 of 32 = 8 (M) · 6/10 of 65 = 39 (E) · 1/6 of 12 = 2 (D) · 2/10 of 125 = 25 (R) · 2/8 of 148 = 37 (P) · 3/6 of 42 = 21 (N) · 7/10 of 80 = 56 (I) · 2/6 of 132 = 44 (W) · 1/2 of 54 = 27 (A) · 5/10 of 6 = 3 (H) · 1/3 of 177 = 59 (S) · 4/8 of 102 = 51 (U) · 2/3 of 21 = 14 (G) · 2/6 of 165 = 55 (C)

Clue 2 (Multiplication facts (1-12)): "THE RIGHT HAND WORE A WHITE GLOVE"

7 × 5 = 35 (T) · 5 × 9 = 45 (N) · 1 × 11 = 11 (L) · 9 × 10 = 90 (O) · 7 × 4 = 28 (V) · 7 × 7 = 49 (E) · 5 × 2 = 10 (I) · 4 × 4 = 16 (D) · 12 × 9 = 108 (H) · 10 × 5 = 50 (R) · 2 × 2 = 4 (W) · 12 × 12 = 144 (A) · 3 × 3 = 9 (G)

Clue 3 (Pythagorean theorem): "A LASER POINTER DISTRACTED THEM"

legs 12 and 35, hypotenuse = 37 (A) · legs 24 and 45, hypotenuse = 51 (H) · legs 15 and 36, hypotenuse = 39 (T) · legs 24 and 32, hypotenuse = 40 (M) · legs 12 and 16, hypotenuse = 20 (I) · legs 24 and 70, hypotenuse = 74 (L) · legs 20 and 21, hypotenuse = 29 (C) · legs 27 and 120, hypotenuse = 123 (S) · legs 20 and 48, hypotenuse = 52 (N) · legs 8 and 15, hypotenuse = 17 (E) · legs 36 and 105, hypotenuse = 111 (R) · legs 16 and 30, hypotenuse = 34 (P) · legs 21 and 72, hypotenuse = 75 (D) · legs 35 and 120, hypotenuse = 125 (O)

Clue 4 (Square roots): "WE FOUND A CURLY BLACK STRAND"

sqrt(625) = 25 (W) · sqrt(121) = 11 (C) · sqrt(64) = 8 (E) · sqrt(81) = 9 (B) · sqrt(400) = 20 (S) · sqrt(196) = 14 (T) · sqrt(361) = 19 (K) · sqrt(16) = 4 (R) · sqrt(36) = 6 (F) · sqrt(4) = 2 (N) · sqrt(441) = 21 (A) · sqrt(100) = 10 (D) · sqrt(49) = 7 (L) · sqrt(576) = 24 (O) · sqrt(225) = 15 (U) · sqrt(144) = 12 (Y)

Clue 5 (Missing addends): surviving statement is box 2 → Amelia Earhart

9 + ___ = 17 = 8 · 17 + ___ = 21 = 4 · 38 + ___ = 50 = 12 · 5 + ___ = 16 = 11 · 29 + ___ = 38 = 9 · 40 + ___ = 45 = 5 · 21 + ___ = 31 = 10 · 27 + ___ = 33 = 6 · 26 + ___ = 27 = 1 · 1 + ___ = 4 = 3 · 28 + ___ = 35 = 7