# The Mystery of the Missing Playbook

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

**Detective:** _____ **Date:** _____

Just hours before kickoff, someone sneaked into the stadium office and snatched the golden playbook! The security team narrowed down the suspects to twenty-four people seen around the field. Solve the clues to help Coach find the culprit before game time!

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 playbook thief is** _____

## Possible suspects

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

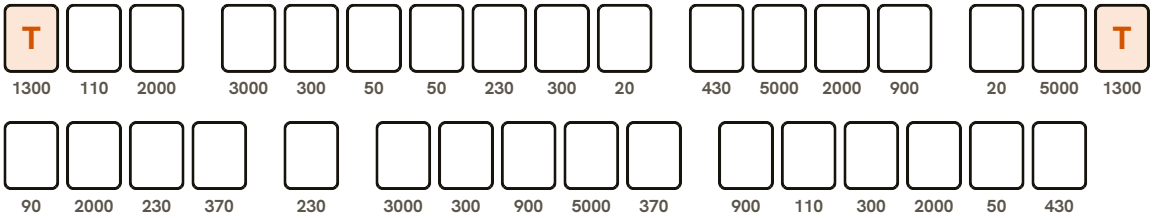
| NAME | SIGNATURE MOVE | LOCKER GEAR | THROWING HAND | HELMET STRIPE | DISTRACTION |
|---|---|---|---|---|---|
| **Christian McCaffrey** | Rocket Pass | Cleat Spikes | Right Handed | Gold Stripe | Loud Whistle |
| **CJ Stroud** | Spin Move | Arm Band | Right Handed | Red Stripe | Slippery Mud |
| **Travis Hunter** | Spin Move | Grip Gloves | Left Handed | Blue Stripe | Loud Whistle |
| **Davante Adams** | Spin Move | Arm Band | Left Handed | Gold Stripe | Bright Mascot |
| **Myles Garrett** | Hurdle Jump | Grip Gloves | Left Handed | Gold Stripe | Bright Mascot |
| **Micah Parsons** | Spin Move | Grip Gloves | Right Handed | Gold Stripe | Bright Mascot |
| **Travis Kelce** | Spin Move | Grip Gloves | Left Handed | Blue Stripe | Bright Mascot |
| **Sauce Gardner** | Blitz Dash | Arm Band | Left Handed | Blue Stripe | Loud Whistle |
| **Derrick Henry** | Spin Move | Cleat Spikes | Left Handed | Gold Stripe | Loud Whistle |
| **Nick Bosa** | Hurdle Jump | Cleat Spikes | Right Handed | Red Stripe | Slippery Mud |
| **JaMarr Chase** | Stiff Arm | Visor Shield | Right Handed | Red Stripe | Bright Mascot |
| **Cooper Kupp** | Stiff Arm | Grip Gloves | Left Handed | Gold Stripe | Loud Whistle |
| **Justin Herbert** | Hurdle Jump | Arm Band | Left Handed | Gold Stripe | Bright Mascot |
| **Patrick Mahomes** | Spin Move | Cleat Spikes | Right Handed | Gold Stripe | Slippery Mud |
| **Brock Purdy** | Stiff Arm | Towel Clip | Right Handed | Red Stripe | Slippery Mud |
| **Josh Allen** | Hurdle Jump | Towel Clip | Left Handed | Gold Stripe | Bright Mascot |
| **Tyreek Hill** | Hurdle Jump | Visor Shield | Right Handed | Gold Stripe | Bright Mascot |
| **TJ Watt** | Hurdle Jump | Cleat Spikes | Right Handed | Blue Stripe | Slippery Mud |
| **Aaron Donald** | Spin Move | Cleat Spikes | Left Handed | Gold Stripe | Slippery Mud |
| **Justin Jefferson** | Rocket Pass | Visor Shield | Left Handed | Gold Stripe | Bright Mascot |
| **Jalen Hurts** | Stiff Arm | Visor Shield | Left Handed | Gold Stripe | Bright Mascot |

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## CLUE 1 Rounding

The digital clock on the stadium scoreboard rounded the seating count to the nearest hundred.

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




Round 1,272 to the nearest hundred ☐ → T

Round 17 to the nearest ten ☐ → N

Round 2,975 to the nearest thousand ☐ → V

Round 50 to the nearest ten ☐ → L

Round 5,106 to the nearest thousand ☐ → O

Round 2,491 to the nearest thousand ☐ → E

Round 92 to the nearest ten ☐ → W

Round 229 to the nearest ten ☐ → A

Round 367 to the nearest ten ☐ → R

Round 897 to the nearest hundred ☐ → S

Round 108 to the nearest ten ☐ → H

Round 428 to the nearest ten ☐ → D

Round 292 to the nearest hundred ☐ → I

Scratch space:

## CLUE 2 Addition

Coach Miller added up the total footballs collected on the turf after warmups.

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



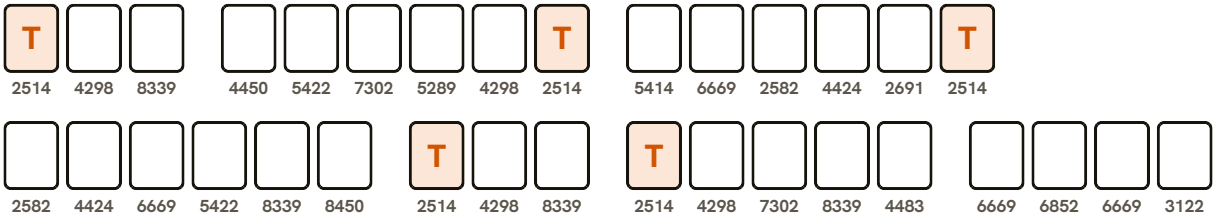

| | | |
|---|---|---|
| 5838 + 3819 = ☐ → A | 2317 + 3644 = ☐ → D | 692 + 1542 = ☐ → N |
| 5232 + 3775 = ☐ → T | 2486 + 1274 = ☐ → B | 5408 + 3290 = ☐ → E |
| 3788 + 2914 = ☐ → I | 6471 + 3177 = ☐ → F | 2838 + 1376 = ☐ → R |
| 3132 + 2328 = ☐ → H | 4932 + 3016 = ☐ → S | 2234 + 1799 = ☐ → W |
| 799 + 1615 = ☐ → L | 3865 + 4554 = ☐ → U | 4034 + 2369 = ☐ → Y |

Scratch space:

## CLUE 3 Subtraction

The equipment manager subtracted the returned practice helmets from the storage cart.

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




7312 - 4798 = ☐ → T

13202 - 4752 = ☐ → D

9879 - 1540 = ☐ → E

8810 - 4327 = ☐ → F

6208 - 794 = ☐ → M

7751 - 3453 = ☐ → H

5929 - 2807 = ☐ → Y

7506 - 3056 = ☐ → B

6427 - 1138 = ☐ → G

7381 - 2957 = ☐ → C

8274 - 1422 = ☐ → W

7279 - 4588 = ☐ → O

3705 - 1123 = ☐ → S

12003 - 4701 = ☐ → I

9351 - 2682 = ☐ → A

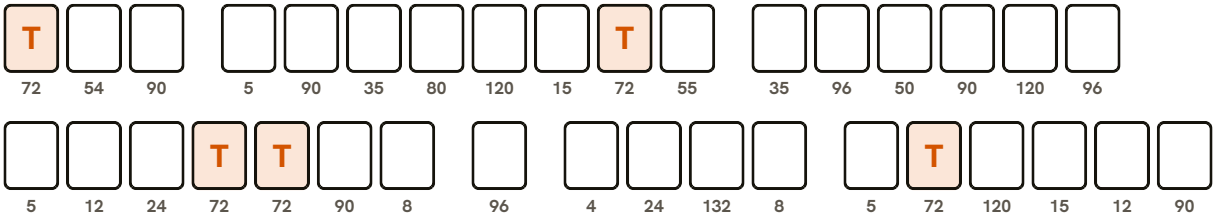
7529 - 2107 = ☐ → R

Scratch space:

## CLUE 4 Multiplication facts (1-12)

> The band leader counted equal rows of drums marching out onto the field.

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




8 × 9 = ☐ → T

6 × 9 = ☐ → H

8 × 10 = ☐ → U

8 × 3 = ☐ → O

7 × 5 = ☐ → C

11 × 5 = ☐ → Y

3 × 4 = ☐ → P

8 × 12 = ☐ → A

8 × 1 = ☐ → D

1 × 4 = ☐ → G

12 × 10 = ☐ → R

10 × 9 = ☐ → E

3 × 5 = ☐ → I

5 × 10 = ☐ → M

12 × 11 = ☐ → L

5 × 1 = ☐ → S

Scratch space:

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

> The referee divided the spare water bottles equally among the side benches.

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:**

| | | | | |
|---|---|---|---|---|
| 16 ÷ 8 = ☐ | 84 ÷ 12 = ☐ | 55 ÷ 5 = ☐ | 18 ÷ 3 = ☐ | 25 ÷ 5 = ☐ |
| 16 ÷ 2 = ☐ | 36 ÷ 9 = ☐ | 27 ÷ 9 = ☐ | 48 ÷ 4 = ☐ | 40 ÷ 4 = ☐ |
| 36 ÷ 4 = ☐ | | | | |

**Step 2 - cross out the sentence with each answer:**

1. The villain jumped with a hurdle move, then pulled on grip gloves.
2. The villain jumped with a hurdle move, then wiped hands on a towel clip.
3. The villain blocked with a stiff arm, then wiped hands on a towel clip.
4. The villain charged in a blitz dash, then adjusted their cleat spikes.
5. The villain jumped with a hurdle move, then adjusted their cleat spikes.
6. The villain blocked with a stiff arm, then adjusted their cleat spikes.
7. The villain jumped with a hurdle move, then tightened an arm band.
8. The villain used a spin move, then pulled on grip gloves.
9. The villain charged in a blitz dash, then wiped hands on a towel clip.
10. The villain jumped with a hurdle move, then snapped down a visor shield.
11. The villain used a spin move, then tightened an arm band.
12. The villain charged in a blitz dash, then snapped down a visor shield.

TEACHER / PARENT

# Answer Key

The Mystery of the Missing Playbook

## Culprit: Myles Garrett

Hurdle Jump · Grip Gloves · Left Handed · Gold Stripe · Bright Mascot

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

### Clue 1 (Rounding): "THE VILLAIN DOES NOT WEAR A VISOR SHIELD"

Round 1,272 to the nearest hundred = 1300 (T) · Round 17 to the nearest ten = 20 (N) · Round 2,975 to the nearest thousand = 3000 (V) · Round 50 to the nearest ten = 50 (L) · Round 5,106 to the nearest thousand = 5000 (O) · Round 2,491 to the nearest thousand = 2000 (E) · Round 92 to the nearest ten = 90 (W) · Round 229 to the nearest ten = 230 (A) · Round 367 to the nearest ten = 370 (R) · Round 897 to the nearest hundred = 900 (S) · Round 108 to the nearest ten = 110 (H) · Round 428 to the nearest ten = 430 (D) · Round 292 to the nearest hundred = 300 (I)

### Clue 2 (Addition): "A WITNESS SAW A LEFT HANDED RUNNER NEARBY"

5838 + 3819 = 9657 (A) · 2317 + 3644 = 5961 (D) · 692 + 1542 = 2234 (N) · 5232 + 3775 = 9007 (T) · 2486 + 1274 = 3760 (B) · 5408 + 3290 = 8698 (E) · 3788 + 2914 = 6702 (I) · 6471 + 3177 = 9648 (F) · 2838 + 1376 = 4214 (R) · 3132 + 2328 = 5460 (H) · 4932 + 3016 = 7948 (S) · 2234 + 1799 = 4033 (W) · 799 + 1615 = 2414 (L) · 3865 + 4554 = 8419 (U) · 4034 + 2369 = 6403 (Y)

### Clue 3 (Subtraction): "THE BRIGHT MASCOT SCARED THE THIEF AWAY"

7312 - 4798 = 2514 (T) · 13202 - 4752 = 8450 (D) · 9879 - 1540 = 8339 (E) · 8810 - 4327 = 4483 (F) · 6208 - 794 = 5414 (M) · 7751 - 3453 = 4298 (H) · 5929 - 2807 = 3122 (Y) · 7506 - 3056 = 4450 (B) · 6427 - 1138 = 5289 (G) · 7381 - 2957 = 4424 (C) · 8274 - 1422 = 6852 (W) · 7279 - 4588 = 2691 (O) · 3705 - 1123 = 2582 (S) · 12003 - 4701 = 7302 (I) · 9351 - 2682 = 6669 (A) · 7529 - 2107 = 5422 (R)

### Clue 4 (Multiplication facts (1-12)): "THE SECURITY CAMERA SPOTTED A GOLD STRIPE"

8 × 9 = 72 (T) · 6 × 9 = 54 (H) · 8 × 10 = 80 (U) · 8 × 3 = 24 (O) · 7 × 5 = 35 (C) · 11 × 5 = 55 (Y) · 3 × 4 = 12 (P) · 8 × 12 = 96 (A) · 8 × 1 = 8 (D) · 1 × 4 = 4 (G) · 12 × 10 = 120 (R) · 10 × 9 = 90 (E) · 3 × 5 = 15 (I) · 5 × 10 = 50 (M) · 12 × 11 = 132 (L) · 5 × 1 = 5 (S)

### Clue 5 (Division facts (1-12)): surviving statement is box 1 → Myles Garrett

16 ÷ 8 = 2 · 84 ÷ 12 = 7 · 55 ÷ 5 = 11 · 18 ÷ 3 = 6 · 25 ÷ 5 = 5 · 16 ÷ 2 = 8 · 36 ÷ 9 = 4 · 27 ÷ 9 = 3 · 48 ÷ 4 = 12 · 40 ÷ 4 = 10 · 36 ÷ 4 = 9