The Golden Playbook Mystery

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

Detective: _____ **Date:** _____

Right before the championship kickoff, someone snuck into the coaches office and took the secret playbook! Use the field clues to find the thief.

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 Bandit is _____

Possible suspects

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

NAME	SIGNATURE PLAY	GEAR TYPE	THROWING HAND	HELMET COLOR	FIELD TRAP
Rob Gronkowski	Blitz Rush	Towel Strap	Right Handed	Silver Helmet	Yellow Flag
Peyton Manning	Hail Mary	Towel Strap	Left Handed	Silver Helmet	Yellow Flag
Jason Kelce	Spin Move	Cleat Spikes	Left Handed	Silver Helmet	Slippery Mud
Jerry Rice	Hurdle Jump	Visor Shield	Right Handed	Silver Helmet	Yellow Flag
Saquon Barkley	Sideline Sprint	Visor Shield	Right Handed	Neon Helmet	Yellow Flag
Ray Lewis	Hail Mary	Visor Shield	Right Handed	Neon Helmet	Yellow Flag
Jalen Hurts	Spin Move	Visor Shield	Right Handed	Gold Helmet	Yellow Flag
Tom Brady	Hail Mary	Arm Sleeve	Right Handed	Silver Helmet	Slippery Mud
Christian McCaffrey	Sideline Sprint	Cleat Spikes	Right Handed	Silver Helmet	Yellow Flag
Aaron Donald	Sideline Sprint	Arm Sleeve	Right Handed	Gold Helmet	Slippery Mud
Derrick Henry	Hurdle Jump	Cleat Spikes	Left Handed	Silver Helmet	Loud Whistle
Josh Allen	Hail Mary	Padded Gloves	Left Handed	Silver Helmet	Loud Whistle
Justin Jefferson	Blitz Rush	Visor Shield	Right Handed	Silver Helmet	Yellow Flag
Travis Kelce	Hurdle Jump	Towel Strap	Right Handed	Gold Helmet	Loud Whistle
Barry Sanders	Blitz Rush	Visor Shield	Left Handed	Silver Helmet	Loud Whistle
Deion Sanders	Spin Move	Padded Gloves	Right Handed	Silver Helmet	Yellow Flag
Tyreek Hill	Hurdle Jump	Arm Sleeve	Right Handed	Gold Helmet	Slippery Mud
JJ Watt	Sideline Sprint	Arm Sleeve	Right Handed	Gold Helmet	Yellow Flag
Patrick Mahomes	Blitz Rush	Towel Strap	Right Handed	Gold Helmet	Yellow Flag
Lamar Jackson	Hurdle Jump	Towel Strap	Left Handed	Silver Helmet	Loud Whistle
Micah Parsons	Sideline Sprint	Towel Strap	Right Handed	Neon Helmet	Yellow Flag

CLUE 1 Rounding

The digital stadium clock rounded the time to the nearest ten seconds before freezing.

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

T																			T	
4300	2000	500	1100	300	700	700	30	300	900	110	3700	500	170	900	3700	4300				
								T												
50	500	30	230	90	700	500	30	4300	170	2900	300	370	500	170						

Round 4,316 to the nearest hundred ☐ → T

Round 166 to the nearest ten ☐ → S

Round 3,722 to the nearest hundred ☐ → O

Round 231 to the nearest ten ☐ → R

Round 86 to the nearest ten ☐ → C

Round 480 to the nearest hundred ☐ → E

Round 2,916 to the nearest hundred ☐ → P

Round 32 to the nearest ten ☐ → A

Round 1,112 to the nearest hundred ☐ → V

Round 52 to the nearest ten ☐ → W

Round 366 to the nearest ten ☐ → K

Round 926 to the nearest hundred ☐ → N

Round 322 to the nearest hundred ☐ → I

Round 749 to the nearest hundred ☐ → L

Round 107 to the nearest ten ☐ → D

Round 2,182 to the nearest thousand ☐ → H

Scratch space:

CLUE 2 Addition

> Coach added up all the training cones set out across the practice field.

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



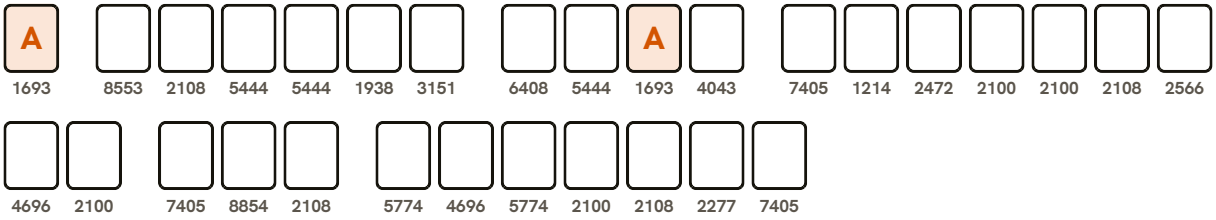
2791 + 3897 = ☐ → W	1213 + 1234 = ☐ → R	3504 + 4891 = ☐ → E
4460 + 2362 = ☐ → S	2280 + 4858 = ☐ → N	1574 + 2398 = ☐ → O
4582 + 3260 = ☐ → A	2301 + 1014 = ☐ → I	1415 + 1696 = ☐ → D
2163 + 2381 = ☐ → H	2325 + 1639 = ☐ → G	3237 + 2774 = ☐ → T

Scratch space:

CLUE 3 Subtraction

The equipment manager subtracted the missing practice jerseys from the storage crate.

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



5960 - 4267 = ☐ → A

4929 - 2991 = ☐ → O

6058 - 284 = ☐ → S

2641 - 541 = ☐ → P

10469 - 4061 = ☐ → F

8602 - 49 = ☐ → Y

2114 - 6 = ☐ → E

6386 - 4109 = ☐ → C

6194 - 4980 = ☐ → R

7678 - 273 = ☐ → T

13785 - 4931 = ☐ → H

5023 - 980 = ☐ → G

3416 - 944 = ☐ → I

6319 - 3168 = ☐ → W

2634 - 68 = ☐ → D

8968 - 4272 = ☐ → U

6459 - 1015 = ☐ → L

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The band leader counted equal rows of stadium bleachers filled with fans.

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

S						S						S											
132	16	144	5	30	20	132	4	20	27	7	30	132	36	30	20	30	144	30	81	2	40	63	2	35	30	2	25	20	81

11 × 12 = ☐ → S

8 × 5 = ☐ → O

9 × 9 = ☐ → F

5 × 4 = ☐ → R

8 × 2 = ☐ → I

9 × 3 = ☐ → A

5 × 7 = ☐ → H

5 × 5 = ☐ → U

5 × 1 = ☐ → V

12 × 12 = ☐ → L

1 × 2 = ☐ → T

9 × 7 = ☐ → N

7 × 1 = ☐ → P

4 × 1 = ☐ → C

6 × 6 = ☐ → W

5 × 6 = ☐ → E

Scratch space:

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

> The captain divided the rest-stop juice boxes evenly among the five training squads.

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:

14 ÷ 2 = ☐	10 ÷ 10 = ☐	24 ÷ 12 = ☐	77 ÷ 7 = ☐	108 ÷ 12 = ☐
48 ÷ 12 = ☐	24 ÷ 2 = ☐	10 ÷ 2 = ☐	60 ÷ 6 = ☐	42 ÷ 7 = ☐
80 ÷ 10 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain executed a blitz rush, then fixed a visor shield.
2. The villain executed a blitz rush, then tucked in a towel strap.
3. The villain used a spin move, then adjusted padded gloves.
4. The villain made a hurdle jump, then adjusted padded gloves.
5. The villain executed a blitz rush, then pulled on an arm sleeve.
6. The villain used a spin move, then laced up cleat spikes.
7. The villain made a hurdle jump, then fixed a visor shield.
8. The villain threw a hail mary, then fixed a visor shield.
9. The villain used a spin move, then fixed a visor shield.
10. The villain made a hurdle jump, then pulled on an arm sleeve.
11. The villain ran a sideline sprint, then fixed a visor shield.
12. The villain ran a sideline sprint, then adjusted padded gloves.

TEACHER / PARENT

Answer Key

The Golden Playbook Mystery

Culprit: Deion Sanders

Spin Move · Padded Gloves · Right Handed · Silver Helmet · Yellow Flag

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 10 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT WEAR CLEAT SPIKES"

Round 4,316 to the nearest hundred = 4300 (T) · Round 166 to the nearest ten = 170 (S) · Round 3,722 to the nearest hundred = 3700 (O) · Round 231 to the nearest ten = 230 (R) · Round 86 to the nearest ten = 90 (C) · Round 480 to the nearest hundred = 500 (E) · Round 2,916 to the nearest hundred = 2900 (P) · Round 32 to the nearest ten = 30 (A) · Round 1,112 to the nearest hundred = 1100 (V) · Round 52 to the nearest ten = 50 (W) · Round 366 to the nearest ten = 370 (K) · Round 926 to the nearest hundred = 900 (N) · Round 322 to the nearest hundred = 300 (I) · Round 749 to the nearest hundred = 700 (L) · Round 107 to the nearest ten = 110 (D) · Round 2,182 to the nearest thousand = 2000 (H)

Clue 2 (Addition): "WITNESS SAW A RIGHT HANDED THROW"

2791 + 3897 = 6688 (W) · 1213 + 1234 = 2447 (R) · 3504 + 4891 = 8395 (E) · 4460 + 2362 = 6822 (S) · 2280 + 4858 = 7138 (N) · 1574 + 2398 = 3972 (O) · 4582 + 3260 = 7842 (A) · 2301 + 1014 = 3315 (I) · 1415 + 1696 = 3111 (D) · 2163 + 2381 = 4544 (H) · 2325 + 1639 = 3964 (G) · 3237 + 2774 = 6011 (T)

Clue 3 (Subtraction): "A YELLOW FLAG TRIPPED UP THE SUSPECT"

5960 - 4267 = 1693 (A) · 4929 - 2991 = 1938 (O) · 6058 - 284 = 5774 (S) · 2641 - 541 = 2100 (P) · 10469 - 4061 = 6408 (F) · 8602 - 49 = 8553 (Y) · 2114 - 6 = 2108 (E) · 6386 - 4109 = 2277 (C) · 6194 - 4980 = 1214 (R) · 7678 - 273 = 7405 (T) · 13785 - 4931 = 8854 (H) · 5023 - 980 = 4043 (G) · 3416 - 944 = 2472 (I) · 6319 - 3168 = 3151 (W) · 2634 - 68 = 2566 (D) · 8968 - 4272 = 4696 (U) · 6459 - 1015 = 5444 (L)

Clue 4 (Multiplication facts (1-12)): "SILVER SCRAPES WERE LEFT ON THE TURF"

11 × 12 = 132 (S) · 8 × 5 = 40 (O) · 9 × 9 = 81 (F) · 5 × 4 = 20 (R) · 8 × 2 = 16 (I) · 9 × 3 = 27 (A) · 5 × 7 = 35 (H) · 5 × 5 = 25 (U) · 5 × 1 = 5 (V) · 12 × 12 = 144 (L) · 1 × 2 = 2 (T) · 9 × 7 = 63 (N) · 7 × 1 = 7 (P) · 4 × 1 = 4 (C) · 6 × 6 = 36 (W) · 5 × 6 = 30 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Deion Sanders

14 ÷ 2 = 7 · 10 ÷ 10 = 1 · 24 ÷ 12 = 2 · 77 ÷ 7 = 11 · 108 ÷ 12 = 9 · 48 ÷ 12 = 4 · 24 ÷ 2 = 12 · 10 ÷ 2 = 5 · 60 ÷ 6 = 10 · 42 ÷ 7 = 6 · 80 ÷ 10 = 8