The Great Championship Trophy Caper

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

Detective: _____ **Date:** _____

Right before the championship game, the solid gold trophy vanished from the locker room safe! Detective Tackle needs your help to review the evidence and stop the villain before halftime.

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 trophy thief is _____

Possible suspects

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

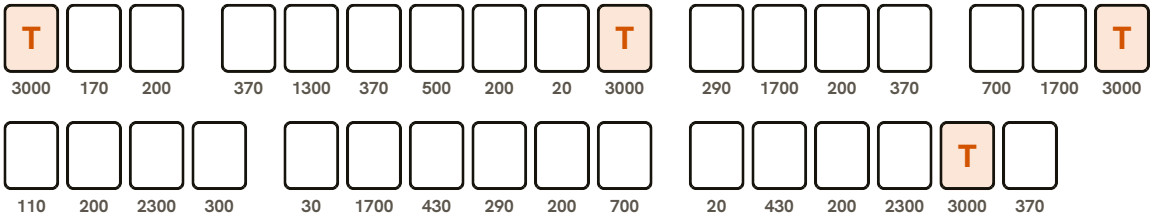
NAME	SPECIAL PLAY	GEAR ITEM	STANCE	HELMET STRIPE	DISTRACTION
Dan Marino	Spin Move	Towel Belt	Right Handed	Red Stripe	Yellow Flag
Deion Sanders	Hurdle Jump	Towel Belt	Left Handed	Blue Stripe	Yellow Flag
Brett Favre	Hurdle Jump	Sticky Gloves	Left Handed	Blue Stripe	Slippery Mud
Aaron Donald	Blitz Dash	Arm Sleeves	Right Handed	Blue Stripe	Slippery Mud
Eli Manning	Hurdle Jump	Towel Belt	Left Handed	Blue Stripe	Slippery Mud
Josh Allen	Blitz Dash	Tinted Visor	Right Handed	Gold Stripe	Yellow Flag
Jerry Rice	Flea Flicker	Sticky Gloves	Right Handed	Gold Stripe	Loud Whistle
Lamar Jackson	Flea Flicker	Arm Sleeves	Left Handed	Gold Stripe	Slippery Mud
Patrick Mahomes	Blitz Dash	Towel Belt	Right Handed	Blue Stripe	Slippery Mud
Tyreek Hill	Blitz Dash	Towel Belt	Left Handed	Red Stripe	Slippery Mud
Jalen Hurts	Flea Flicker	Sticky Gloves	Left Handed	Red Stripe	Slippery Mud
Saquon Barkley	Blitz Dash	Tinted Visor	Left Handed	Gold Stripe	Yellow Flag
JJ Watt	Hurdle Jump	Arm Sleeves	Right Handed	Gold Stripe	Yellow Flag
Troy Polamalu	Spin Move	Sticky Gloves	Left Handed	Blue Stripe	Slippery Mud
Rob Gronkowski	Hail Mary	Arm Sleeves	Left Handed	Blue Stripe	Yellow Flag
Lawrence Taylor	Hurdle Jump	Tinted Visor	Right Handed	Red Stripe	Yellow Flag
Travis Kelce	Hail Mary	Golden Cleats	Left Handed	Blue Stripe	Slippery Mud
Joe Burrow	Hurdle Jump	Golden Cleats	Right Handed	Red Stripe	Loud Whistle
Barry Sanders	Blitz Dash	Sticky Gloves	Left Handed	Blue Stripe	Slippery Mud
Walter Payton	Flea Flicker	Golden Cleats	Left Handed	Gold Stripe	Slippery Mud
Tom Brady	Spin Move	Tinted Visor	Right Handed	Gold Stripe	Slippery Mud

make your own at mathcrackers.com

CLUE 1 Rounding

The stadium digital clock was glitching and only displayed rounded times for the security log.

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



Round 3,095 to the nearest thousand ☐ → T

Round 366 to the nearest ten ☐ → S

Round 298 to the nearest hundred ☐ → R

Round 1,652 to the nearest hundred ☐ → O

Round 1,328 to the nearest hundred ☐ → U

Round 33 to the nearest ten ☐ → G

Round 196 to the nearest hundred ☐ → E

Round 543 to the nearest hundred ☐ → P

Round 294 to the nearest ten ☐ → D

Round 431 to the nearest ten ☐ → L

Round 16 to the nearest ten ☐ → C

Round 113 to the nearest ten ☐ → W

Round 2,321 to the nearest hundred ☐ → A

Round 171 to the nearest ten ☐ → H

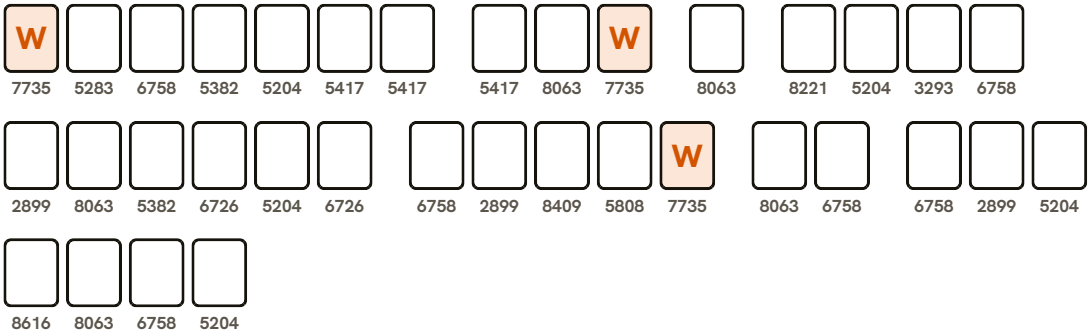
Round 706 to the nearest hundred ☐ → N

Scratch space:

CLUE 2 Addition

Coach counted up all the practice gear brought into the locker room to tally the totals.

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



3353 + 4382 = ☐ → W

1709 + 3574 = ☐ → I

3267 + 4954 = ☐ → L

2868 + 5748 = ☐ → G

1204 + 1695 = ☐ → H

3986 + 2772 = ☐ → T

3100 + 5309 = ☐ → R

3332 + 2085 = ☐ → S

3105 + 2099 = ☐ → E

2210 + 3598 = ☐ → O

3305 + 2077 = ☐ → N

2209 + 1084 = ☐ → F

2915 + 5148 = ☐ → A

3567 + 3159 = ☐ → D

Scratch space:

CLUE 3 Subtraction

The equipment manager calculated how many missing items remained after the burglary.

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



5307 - 1061 = ☐ → T

7875 - 1092 = ☐ → R

10332 - 3118 = ☐ → H

10209 - 2430 = ☐ → O

5375 - 1072 = ☐ → S

9800 - 899 = ☐ → D

12466 - 4836 = ☐ → I

12660 - 4482 = ☐ → Y

3736 - 2145 = ☐ → L

12844 - 4196 = ☐ → N

1611 - 154 = ☐ → P

5996 - 3295 = ☐ → E

8677 - 2672 = ☐ → F

9412 - 3028 = ☐ → M

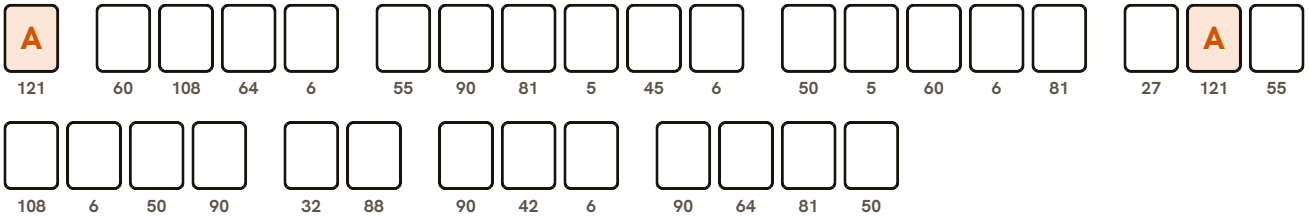
9755 - 1742 = ☐ → U

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The stadium crew checked equal rows of bleacher seats to calculate total fan signs.

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



11 × 11 = ☐ → A

11 × 8 = ☐ → N

9 × 10 = ☐ → T

5 × 11 = ☐ → S

10 × 6 = ☐ → B

7 × 6 = ☐ → H

3 × 2 = ☐ → E

9 × 12 = ☐ → L

4 × 8 = ☐ → O

10 × 5 = ☐ → F

9 × 9 = ☐ → R

5 × 1 = ☐ → I

5 × 9 = ☐ → P

9 × 3 = ☐ → W

8 × 8 = ☐ → U

Scratch space:

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

> The team captain split the energy bars equally among the defensive players.

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:

63 ÷ 7 = ☐ | 9 ÷ 9 = ☐ | 16 ÷ 8 = ☐ | 44 ÷ 11 = ☐ | 30 ÷ 6 = ☐

120 ÷ 10 = ☐ | 60 ÷ 6 = ☐ | 15 ÷ 5 = ☐ | 32 ÷ 4 = ☐ | 70 ÷ 10 = ☐

36 ÷ 6 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain cleared the fence with a hurdle jump, then wiped down fingerprints with a towel belt.
2. The villain cleared the fence with a hurdle jump, then snagged the trophy using sticky gloves.
3. The villain threw a deep hail mary, then snagged the trophy using sticky gloves.
4. The villain called a sneaky flea flicker, then wiped down fingerprints with a towel belt.
5. The villain called a sneaky flea flicker, then snagged the trophy using sticky gloves.
6. The villain called a sneaky flea flicker, then hid behind a tinted visor.
7. The villain cleared the fence with a hurdle jump, then hid behind a tinted visor.
8. The villain threw a deep hail mary, then grabbed the prize wearing arm sleeves.
9. The villain used a rapid spin move, then snagged the trophy using sticky gloves.
10. The villain cleared the fence with a hurdle jump, then sprinted past guards in golden cleats.
11. The villain rushed in on a blitz dash, then snagged the trophy using sticky gloves.
12. The villain called a sneaky flea flicker, then grabbed the prize wearing arm sleeves.

TEACHER / PARENT

Answer Key

The Great Championship Trophy Caper

Culprit: Barry Sanders

Blitz Dash · Sticky Gloves · Left Handed · Blue Stripe · Slippery Mud

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SUSPECT DOES NOT WEAR GOLDEN CLEATS"

Round 3,095 to the nearest thousand = 3000 (T) · Round 366 to the nearest ten = 370 (S) · Round 298 to the nearest hundred = 300 (R) · Round 1,652 to the nearest hundred = 1700 (O) · Round 1,328 to the nearest hundred = 1300 (U) · Round 33 to the nearest ten = 30 (G) · Round 196 to the nearest hundred = 200 (E) · Round 543 to the nearest hundred = 500 (P) · Round 294 to the nearest ten = 290 (D) · Round 431 to the nearest ten = 430 (L) · Round 16 to the nearest ten = 20 (C) · Round 113 to the nearest ten = 110 (W) · Round 2,321 to the nearest hundred = 2300 (A) · Round 171 to the nearest ten = 170 (H) · Round 706 to the nearest hundred = 700 (N)

Clue 2 (Addition): "WITNESS SAW A LEFT HANDED THROW AT THE GATE"

3353 + 4382 = 7735 (W) · 1709 + 3574 = 5283 (I) · 3267 + 4954 = 8221 (L) · 2868 + 5748 = 8616 (G) · 1204 + 1695 = 2899 (H) · 3986 + 2772 = 6758 (T) · 3100 + 5309 = 8409 (R) · 3332 + 2085 = 5417 (S) · 3105 + 2099 = 5204 (E) · 2210 + 3598 = 5808 (O) · 3305 + 2077 = 5382 (N) · 2209 + 1084 = 3293 (F) · 2915 + 5148 = 8063 (A) · 3567 + 3159 = 6726 (D)

Clue 3 (Subtraction): "THE THIEF SLIPPED OUT UPON SLIPPERY MUD"

5307 - 1061 = 4246 (T) · 7875 - 1092 = 6783 (R) · 10332 - 3118 = 7214 (H) · 10209 - 2430 = 7779 (O) · 5375 - 1072 = 4303 (S) · 9800 - 899 = 8901 (D) · 12466 - 4836 = 7630 (I) · 12660 - 4482 = 8178 (Y) · 3736 - 2145 = 1591 (L) · 12844 - 4196 = 8648 (N) · 1611 - 154 = 1457 (P) · 5996 - 3295 = 2701 (E) · 8677 - 2672 = 6005 (F) · 9412 - 3028 = 6384 (M) · 9755 - 1742 = 8013 (U)

Clue 4 (Multiplication facts (1-12)): "A BLUE STRIPE FIBER WAS LEFT ON THE TURF"

11 × 11 = 121 (A) · 11 × 8 = 88 (N) · 9 × 10 = 90 (T) · 5 × 11 = 55 (S) · 10 × 6 = 60 (B) · 7 × 6 = 42 (H) · 3 × 2 = 6 (E) · 9 × 12 = 108 (L) · 4 × 8 = 32 (O) · 10 × 5 = 50 (F) · 9 × 9 = 81 (R) · 5 × 1 = 5 (I) · 5 × 9 = 45 (P) · 9 × 3 = 27 (W) · 8 × 8 = 64 (U)

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

63 ÷ 7 = 9 · 9 ÷ 9 = 1 · 16 ÷ 8 = 2 · 44 ÷ 11 = 4 · 30 ÷ 6 = 5 · 120 ÷ 10 = 12 · 60 ÷ 6 = 10 · 15 ÷ 5 = 3 · 32 ÷ 4 = 8 · 70 ÷ 10 = 7 · 36 ÷ 6 = 6