The Golden Cleat Caper

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

Detective: _____ **Date:** _____

Someone swiped the golden trophy from the locker room shelf. The league inspector arrived to help the team find the culprit before the championship match.

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 rogue winger is _____

Possible suspects

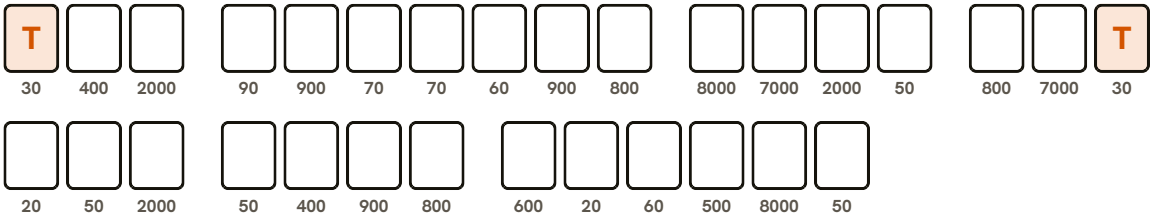
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	FIELD SPECIALTY	EQUIPMENT TOOL	PLAYER TYPE	CAP STYLE	DISTRACTION
Guy	Long Passing	Whistle	Forward	Visor	Fan Cheer
Jay	Corner Kicks	Penalty Flags	Forward	Visor	Fan Cheer
Ivy	Long Passing	Penalty Flags	Forward	Visor	Ball Bounce
Sky	Corner Kicks	Stopwatch	Forward	Headband	Ball Bounce
Zoe	Dribbling Speed	Whistle	Forward	Visor	Ball Bounce
Joy	Header Precision	Tactical Board	Forward	Visor	Ball Bounce
Lee	Goalkeeping	Whistle	Defender	Beanie	Ball Bounce
Rob	Header Precision	Stopwatch	Forward	Visor	Snack Break
Dan	Dribbling Speed	Tactical Board	Defender	Visor	Ball Bounce
Amy	Dribbling Speed	Tactical Board	Forward	Headband	Ball Bounce
Kim	Header Precision	Stopwatch	Defender	Headband	Ball Bounce
Ann	Dribbling Speed	Stopwatch	Defender	Visor	Ball Bounce
Eli	Long Passing	Penalty Flags	Defender	Beanie	Fan Cheer
Meg	Dribbling Speed	Shin Guards	Defender	Visor	Fan Cheer
Jen	Header Precision	Tactical Board	Forward	Visor	Snack Break
Ben	Long Passing	Shin Guards	Defender	Visor	Ball Bounce
Sam	Corner Kicks	Tactical Board	Defender	Beanie	Snack Break
Leo	Goalkeeping	Shin Guards	Forward	Visor	Ball Bounce
Tom	Header Precision	Stopwatch	Forward	Headband	Ball Bounce
Mia	Header Precision	Shin Guards	Forward	Beanie	Fan Cheer
Ian	Corner Kicks	Penalty Flags	Forward	Visor	Ball Bounce

CLUE 1 Rounding

> The inspector rounded the team count to the nearest ten to see who was missing.

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



Round 34 to the nearest ten		T	Round 473 to the nearest hundred		R	Round 582 to the nearest hundred		G
Round 8,409 to the nearest thousand		D	Round 1,963 to the nearest thousand		E	Round 93 to the nearest ten		V
Round 69 to the nearest ten		L	Round 18 to the nearest ten		U	Round 421 to the nearest hundred		H
Round 920 to the nearest hundred		I	Round 46 to the nearest ten		S	Round 6,710 to the nearest thousand		O
Round 59 to the nearest ten		A	Round 791 to the nearest hundred		N			

Scratch space:

CLUE 2 Addition

The coach added up all the gear used on the pitch to spot the missing item.

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

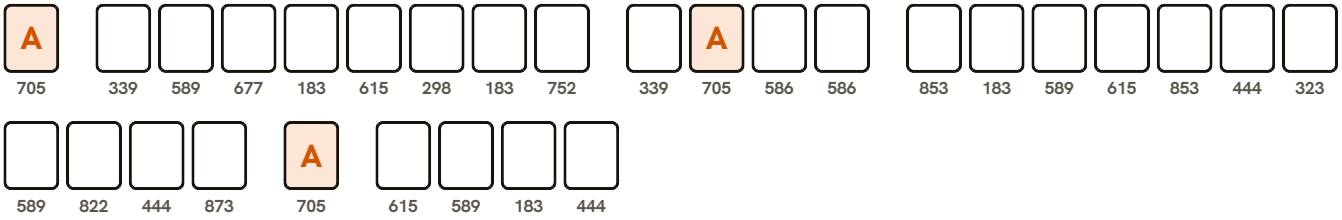
452 + 283 =		T	293 + 355 =		F	292 + 439 =		R
275 + 394 =		E	233 + 509 =		D	333 + 299 =		I
275 + 119 =		O	361 + 626 =		S	227 + 131 =		H
235 + 429 =		N	334 + 543 =		G	547 + 259 =		U
344 + 552 =		A	134 + 146 =		W			

Scratch space:

CLUE 3 Subtraction

Subtract the number of players left on the field from the full squad to find the sneaky one.

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



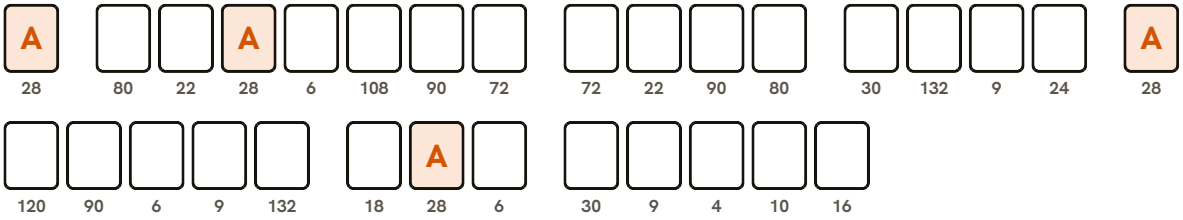
854 - 149 =		A	618 - 320 =		I	984 - 131 =		K
746 - 302 =		E	920 - 334 =		L	726 - 387 =		B
1040 - 288 =		G	1230 - 357 =		R	836 - 221 =		C
1006 - 184 =		V	357 - 174 =		N	632 - 309 =		D
901 - 312 =		O	961 - 284 =		U			

Scratch space:

CLUE 4 Multiplication facts (1-12)

Multiply the players on each training row to count every person near the scene.

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



4 × 7 =		A	8 × 3 =		M	12 × 9 =		T
11 × 12 =		R	1 × 4 =		U	5 × 6 =		F
6 × 1 =		S	10 × 8 =		P	10 × 12 =		V
9 × 1 =		O	2 × 8 =		D	11 × 2 =		L
9 × 10 =		I	1 × 10 =		N	3 × 6 =		W
9 × 8 =		C						

Scratch space:

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

Divide the snacks equally among the scouts to reveal the clue hidden in the pile.

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:

55 ÷ 5 = ☐	8 ÷ 1 = ☐	18 ÷ 3 = ☐
45 ÷ 5 = ☐	35 ÷ 7 = ☐	40 ÷ 4 = ☐
21 ÷ 3 = ☐	10 ÷ 5 = ☐	20 ÷ 5 = ☐
60 ÷ 5 = ☐	2 ÷ 2 = ☐	

Step 2 - cross out the sentence with each answer:

1. The villain curves the ball, then blows the whistle.
2. The villain sprints ahead, then flips the board.
3. The villain kicks high, then tosses the flags.
4. The villain sprints ahead, then checks the stopwatch.
5. The villain sprints ahead, then tosses the flags.
6. The villain jumps up, then flips the board.
7. The villain kicks high, then adjusts the guards.
8. The villain sprints ahead, then blows the whistle.
9. The villain jumps up, then blows the whistle.
10. The villain dives low, then flips the board.
11. The villain curves the ball, then tosses the flags.
12. The villain dives low, then checks the stopwatch.

TEACHER / PARENT

Answer Key

The Golden Cleat Caper

Culprit: Ivy

Long Passing · Penalty Flags · Forward · Visor · Ball Bounce

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE SHIN GUARDS"

Round 34 to the nearest ten = 30 (T) · Round 473 to the nearest hundred = 500 (R) · Round 582 to the nearest hundred = 600 (G) · Round 8,409 to the nearest thousand = 8000 (D) · Round 1,963 to the nearest thousand = 2000 (E) · Round 93 to the nearest ten = 90 (V) · Round 69 to the nearest ten = 70 (L) · Round 18 to the nearest ten = 20 (U) · Round 421 to the nearest hundred = 400 (H) · Round 920 to the nearest hundred = 900 (I) · Round 46 to the nearest ten = 50 (S) · Round 6,710 to the nearest thousand = 7000 (O) · Round 59 to the nearest ten = 60 (A) · Round 791 to the nearest hundred = 800 (N)

Clue 2 (Addition): "THE WITNESS SAW A FORWARD RUNNING FAST"

452 + 283 = 735 (T) · 293 + 355 = 648 (F) · 292 + 439 = 731 (R) · 275 + 394 = 669 (E) · 233 + 509 = 742 (D) · 333 + 299 = 632 (I) · 275 + 119 = 394 (O) · 361 + 626 = 987 (S) · 227 + 131 = 358 (H) · 235 + 429 = 664 (N) · 334 + 543 = 877 (G) · 547 + 259 = 806 (U) · 344 + 552 = 896 (A) · 134 + 146 = 280 (W)

Clue 3 (Subtraction): "A BOUNCING BALL KNOCKED OVER A CONE"

854 - 149 = 705 (A) · 618 - 320 = 298 (I) · 984 - 131 = 853 (K) · 746 - 302 = 444 (E) · 920 - 334 = 586 (L) · 726 - 387 = 339 (B) · 1040 - 288 = 752 (G) · 1230 - 357 = 873 (R) · 836 - 221 = 615 (C) · 1006 - 184 = 822 (V) · 357 - 174 = 183 (N) · 632 - 309 = 323 (D) · 901 - 312 = 589 (O) · 961 - 284 = 677 (U)

Clue 4 (Multiplication facts (1-12)): "A PLASTIC CLIP FROM A VISOR WAS FOUND"

4 × 7 = 28 (A) · 8 × 3 = 24 (M) · 12 × 9 = 108 (T) · 11 × 12 = 132 (R) · 1 × 4 = 4 (U) · 5 × 6 = 30 (F) · 6 × 1 = 6 (S) · 10 × 8 = 80 (P) · 10 × 12 = 120 (V) · 9 × 1 = 9 (O) · 2 × 8 = 16 (D) · 11 × 2 = 22 (L) · 9 × 10 = 90 (I) · 1 × 10 = 10 (N) · 3 × 6 = 18 (W) · 9 × 8 = 72 (C)

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

55 ÷ 5 = 11 · 8 ÷ 1 = 8 · 18 ÷ 3 = 6 · 45 ÷ 5 = 9 · 35 ÷ 7 = 5 · 40 ÷ 4 = 10 · 21 ÷ 3 = 7 · 10 ÷ 5 = 2 · 20 ÷ 5 = 4 · 60 ÷ 5 = 12 · 2 ÷ 2 = 1