The Championship Trophy Caper

Grade 10 math · Place value, Addition, Subtraction, Multiplication, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

The Championship Trophy has vanished from the center court of the All-Star Arena! A mysterious saboteur known as the Game-Wrecker has hijacked the stadium controls, locked the doors, and left a trail of scrambled sports stats. We need to crack the codes and find the culprit.

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 the Game-Wrecker is _____

Possible suspects

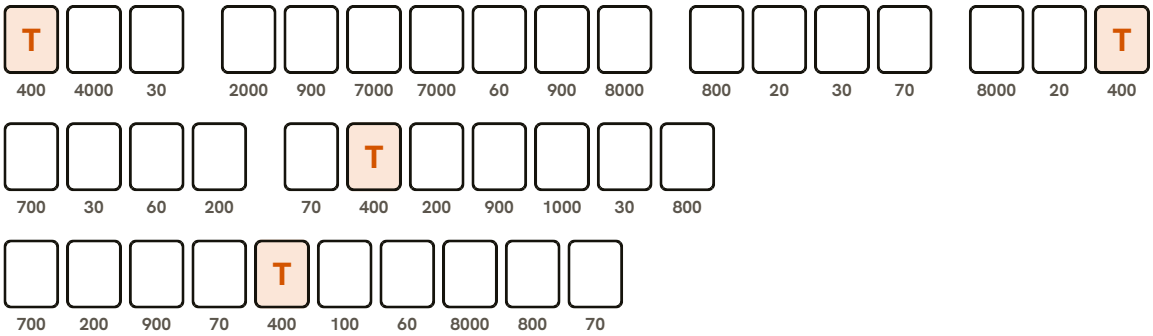
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	FAVORITE GEAR	DOMINANT HAND	HAIRSTYLE	GREATEST FEAR
Robert Lewandowski	bicycle kicking	high-top sneakers	right dominant hand	braided ponytail	deflated ball
Lionel Messi	slam dunking	high-top sneakers	left dominant hand	braided ponytail	loud buzzer
Damian Lillard	perfect dribbling	weighted whistle	right dominant hand	braided ponytail	deflated ball
Marcus Rashford	perfect dribbling	striped wristbands	left dominant hand	bright green dye	deflated ball
Neymar Jr	perfect dribbling	weighted whistle	right dominant hand	bright green dye	deflated ball
Cristiano Ronaldo	perfect dribbling	neon headbands	left dominant hand	bright green dye	deflated ball
Erling Haaland	bicycle kicking	striped wristbands	right dominant hand	bright green dye	squeaky shoes
Mohamed Salah	perfect dribbling	striped wristbands	right dominant hand	bright green dye	squeaky shoes
Alex Morgan	shot blocking	golden cleats	right dominant hand	braided ponytail	deflated ball
Kylian Mbappe	slam dunking	striped wristbands	right dominant hand	bright green dye	squeaky shoes
Giannis Antetokounmpo	slam dunking	golden cleats	right dominant hand	shaved buzzcut	deflated ball
Kyrie Irving	shot blocking	striped wristbands	right dominant hand	braided ponytail	deflated ball
Jimmy Butler	slam dunking	striped wristbands	left dominant hand	braided ponytail	squeaky shoes
Joel Embiid	shot blocking	neon headbands	left dominant hand	bright green dye	deflated ball
Kevin Durant	shot blocking	weighted whistle	right dominant hand	shaved buzzcut	squeaky shoes
LeBron James	shot blocking	high-top sneakers	left dominant hand	bright green dye	loud buzzer
Nikola Jokic	slam dunking	neon headbands	right dominant hand	braided ponytail	deflated ball
James Harden	no-look passing	weighted whistle	left dominant hand	braided ponytail	deflated ball
Luka Doncic	slam dunking	striped wristbands	left dominant hand	braided ponytail	deflated ball
Anthony Davis	bicycle kicking	golden cleats	left dominant hand	bright green dye	loud buzzer
Megan Rapinoe	slam dunking	high-top sneakers	right dominant hand	braided ponytail	squeaky shoes

CLUE 1 Place value

> The scoreboard computer is glitching out. We can isolate the suspect's gear code by identifying the digit in the tens place of the arena's total seat count.

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



What is the value of the 4 in 205,460? ☐ → T

What is the value of the 2 in 838,287? ☐ → R

What is the value of the 7 in 112,721? ☐ → W

What is the value of the 6 in 50,862? ☐ → A

What is the value of the 4 in 724,817? ☐ → H

What is the value of the 9 in 18,936? ☐ → I

What is the value of the 8 in 18,715? ☐ → N

What is the value of the 2 in 52,196? ☐ → V

What is the value of the 3 in 51,236? ☐ → E

What is the value of the 7 in 27,006? ☐ → L

What is the value of the 1 in 30,149? ☐ → B

What is the value of the 8 in 761,846? ☐ → D

What is the value of the 7 in 39,270? ☐ → S

What is the value of the 2 in 433,324? ☐ → O

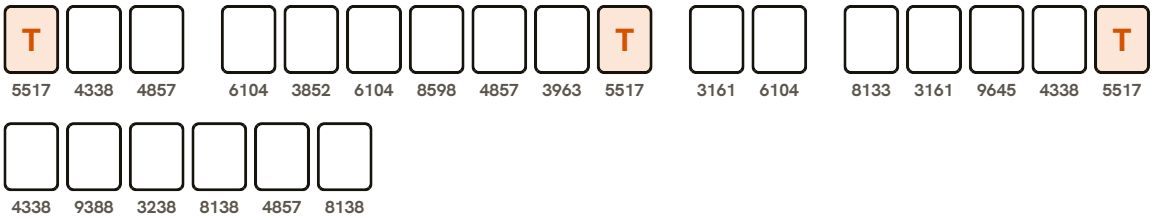
What is the value of the 1 in 41,084? ☐ → P

Scratch space:

CLUE 2 Addition

> We found a locker room logbook listing team training hours. Adding up all the soccer and basketball practice sessions will reveal the next crucial lead.

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



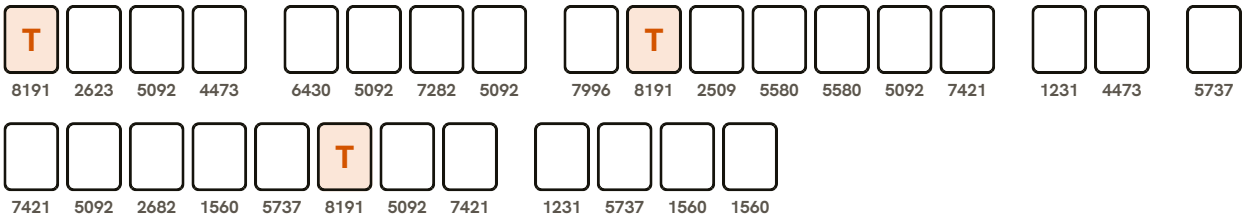
3730 + 1787 = ☐ → T	2418 + 1434 = ☐ → U	3501 + 2603 = ☐ → S
2597 + 1366 = ☐ → C	2086 + 1075 = ☐ → I	2673 + 2184 = ☐ → E
4780 + 4865 = ☐ → G	1479 + 1759 = ☐ → N	2610 + 5988 = ☐ → P
3014 + 1324 = ☐ → H	5361 + 2777 = ☐ → D	3203 + 6185 = ☐ → A
4747 + 3386 = ☐ → R		

Scratch space:

CLUE 3 Subtraction

> The equipment manager says several jerseys are missing. Subtract the number of jerseys currently hanging up from the grand total to find our next clue.

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



8595 - 404 = ☐ → T

7486 - 65 = ☐ → D

3625 - 1002 = ☐ → H

9453 - 3716 = ☐ → A

4730 - 2048 = ☐ → F

6623 - 4114 = ☐ → O

8036 - 3563 = ☐ → Y

8325 - 329 = ☐ → S

8621 - 3041 = ☐ → P

7309 - 2217 = ☐ → E

4089 - 2858 = ☐ → B

10831 - 3549 = ☐ → R

9218 - 2788 = ☐ → W

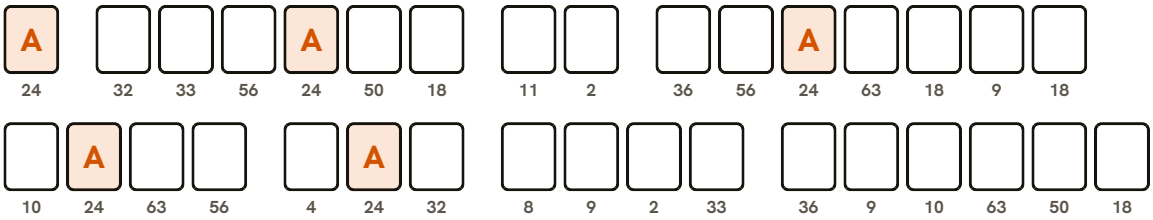
5836 - 4276 = ☐ → L

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The stadium's VIP seats are arranged in perfect, matching rows. Multiply the number of rows by the seats per row to unlock the security camera footage.

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



2 × 12 = ☐ → A	2 × 5 = ☐ → H	9 × 1 = ☐ → E	9 × 7 = ☐ → I
2 × 2 = ☐ → W	3 × 6 = ☐ → D	7 × 8 = ☐ → R	11 × 3 = ☐ → T
10 × 5 = ☐ → N	3 × 12 = ☐ → B	1 × 11 = ☐ → O	
4 × 8 = ☐ → S	1 × 8 = ☐ → L	2 × 1 = ☐ → F	

Scratch space:

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

> The coaches are dividing the practice soccer balls equally among the local youth teams. Solving this division problem reveals the villain's final escape route.

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:

3 ÷ 3 = ☐	36 ÷ 9 = ☐	132 ÷ 12 = ☐	54 ÷ 9 = ☐	16 ÷ 8 = ☐
18 ÷ 6 = ☐	28 ÷ 4 = ☐	8 ÷ 1 = ☐	50 ÷ 5 = ☐	35 ÷ 7 = ☐
72 ÷ 6 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain scrambled the scoreboard, then escaped through the locker room.
2. The villain sabotaged the hoops, then slipped past the concession stands.
3. The villain greased the court floor, then fled into the VIP box.
4. The villain greased the court floor, then hid in the team bus.
5. The villain sabotaged the hoops, then fled into the VIP box.
6. The villain scrambled the scoreboard, then fled into the VIP box.
7. The villain swapped the playbooks, then fled into the VIP box.
8. The villain swapped the playbooks, then ran down the players tunnel.
9. The villain sabotaged the hoops, then ran down the players tunnel.
10. The villain swapped the playbooks, then slipped past the concession stands.
11. The villain deflated the match balls, then fled into the VIP box.
12. The villain deflated the match balls, then hid in the team bus.

TEACHER / PARENT

Answer Key

The Championship Trophy Caper

Culprit: Nikola Jokic

slam dunking · neon headbands · right dominant hand · braided ponytail · deflated ball

Trail: Start 21 → Clue 1 14 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT WEAR STRIPED WRISTBANDS"

What is the value of the 4 in 205,460? = 400 (T) · What is the value of the 2 in 838,287? = 200 (R) · What is the value of the 7 in 112,721? = 700 (W) · What is the value of the 6 in 50,862? = 60 (A) · What is the value of the 4 in 724,817? = 4000 (H) · What is the value of the 9 in 18,936? = 900 (I) · What is the value of the 8 in 18,715? = 8000 (N) · What is the value of the 2 in 52,196? = 2000 (V) · What is the value of the 3 in 51,236? = 30 (E) · What is the value of the 7 in 27,006? = 7000 (L) · What is the value of the 1 in 30,149? = 100 (B) · What is the value of the 8 in 761,846? = 800 (D) · What is the value of the 7 in 39,270? = 70 (S) · What is the value of the 2 in 433,324? = 20 (O) · What is the value of the 1 in 41,084? = 1000 (P)

Clue 2 (Addition): "THE SUSPECT IS RIGHT HANDED"

3730 + 1787 = 5517 (T) · 2418 + 1434 = 3852 (U) · 3501 + 2603 = 6104 (S) · 2597 + 1366 = 3963 (C) · 2086 + 1075 = 3161 (I) · 2673 + 2184 = 4857 (E) · 4780 + 4865 = 9645 (G) · 1479 + 1759 = 3238 (N) · 2610 + 5988 = 8598 (P) · 3014 + 1324 = 4338 (H) · 5361 + 2777 = 8138 (D) · 3203 + 6185 = 9388 (A) · 4747 + 3386 = 8133 (R)

Clue 3 (Subtraction): "THEY WERE STOPPED BY A DEFLATED BALL"

8595 - 404 = 8191 (T) · 7486 - 65 = 7421 (D) · 3625 - 1002 = 2623 (H) · 9453 - 3716 = 5737 (A) · 4730 - 2048 = 2682 (F) · 6623 - 4114 = 2509 (O) · 8036 - 3563 = 4473 (Y) · 8325 - 329 = 7996 (S) · 8621 - 3041 = 5580 (P) · 7309 - 2217 = 5092 (E) · 4089 - 2858 = 1231 (B) · 10831 - 3549 = 7282 (R) · 9218 - 2788 = 6430 (W) · 5836 - 4276 = 1560 (L)

Clue 4 (Multiplication facts (1-12)): "A STRAND OF BRAIDED HAIR WAS LEFT BEHIND"

2 × 12 = 24 (A) · 2 × 5 = 10 (H) · 9 × 1 = 9 (E) · 9 × 7 = 63 (I) · 2 × 2 = 4 (W) · 3 × 6 = 18 (D) · 7 × 8 = 56 (R) · 11 × 3 = 33 (T) · 10 × 5 = 50 (N) · 3 × 12 = 36 (B) · 1 × 11 = 11 (O) · 4 × 8 = 32 (S) · 1 × 8 = 8 (L) · 2 × 1 = 2 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Nikola Jokic

3 ÷ 3 = 1 · 36 ÷ 9 = 4 · 132 ÷ 12 = 11 · 54 ÷ 9 = 6 · 16 ÷ 8 = 2 · 18 ÷ 6 = 3 · 28 ÷ 4 = 7 · 8 ÷ 1 = 8 · 50 ÷ 5 = 10 · 35 ÷ 7 = 5 · 72 ÷ 6 = 12