



The Championship Trophy Caper

Grade 5 math · Addition, Subtraction, Fractions of a number, Order of operations, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The gold championship trophy has vanished from the display case right before the big game! Our team mascot, Buster the Bulldog, saw a mysterious figure flee into the locker rooms.

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 court crasher 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	SHOE UPGRADE	DOMINANT HAND	HEAD GEAR	GAME DISTRACTION
Zion Williamson	Sky Hook Shot	Air Pump Soles	Left handed dribbler	Blue Hair Tie	Noisy Crowds
Ja Morant	Slam Dunk Spark	Ankle Guard Straps	Right handed dribbler	Red Headband	Noisy Crowds
LeBron James	No Look Pass	Spring Action Heels	Left handed dribbler	Blue Hair Tie	Noisy Crowds
Jimmy Butler	Sky Hook Shot	Spring Action Heels	Left handed dribbler	Green Sweatband	Noisy Crowds
Nikola Jokic	No Look Pass	Ankle Guard Straps	Left handed dribbler	Blue Hair Tie	Cold Hands
Kevin Durant	Three Point Shot	Grip Tech Tread	Right handed dribbler	Red Headband	Squeaky Court Shoes
Steph Curry	Sky Hook Shot	Ankle Guard Straps	Left handed dribbler	Red Headband	Noisy Crowds
Trae Young	No Look Pass	Ankle Guard Straps	Left handed dribbler	Green Sweatband	Squeaky Court Shoes
Kawhi Leonard	Slam Dunk Spark	Spring Action Heels	Left handed dribbler	Blue Hair Tie	Noisy Crowds
Paul George	No Look Pass	Neon Glow Laces	Left handed dribbler	Blue Hair Tie	Noisy Crowds
Klay Thompson	Crossover Dribble	Spring Action Heels	Left handed dribbler	Red Headband	Cold Hands
Jayson Tatum	Slam Dunk Spark	Neon Glow Laces	Left handed dribbler	Green Sweatband	Noisy Crowds
Luka Doncic	Sky Hook Shot	Spring Action Heels	Left handed dribbler	Blue Hair Tie	Cold Hands
Chris Paul	Slam Dunk Spark	Ankle Guard Straps	Right handed dribbler	Blue Hair Tie	Noisy Crowds
Russell Westbrook	No Look Pass	Air Pump Soles	Left handed dribbler	Red Headband	Squeaky Court Shoes
Giannis Antetokounmpo	Slam Dunk Spark	Ankle Guard Straps	Left handed dribbler	Blue Hair Tie	Noisy Crowds
Anthony Edwards	Crossover Dribble	Spring Action Heels	Left handed dribbler	Blue Hair Tie	Cold Hands
Devin Booker	Sky Hook Shot	Air Pump Soles	Right handed dribbler	Blue Hair Tie	Cold Hands
Anthony Davis	Sky Hook Shot	Ankle Guard Straps	Right handed dribbler	Red Headband	Noisy Crowds
Damian Lillard	Three Point Shot	Spring Action Heels	Right handed dribbler	Red Headband	Cold Hands
Kyrie Irving	Crossover Dribble	Ankle Guard Straps	Left handed dribbler	Red Headband	Cold Hands

CLUE 1 Addition

To find the first clue, we tally the total number of orange practice basketballs left in the equipment bins.

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

T 6639	6167	3620	T 6639	6932	8678	2042	3620	T 6639	2837	4349	3620	7134	3797	4349	T 6639	
9771	3620	6932	8678	3797	3620	4349	3797	2042	3918	4349	9771	3918	6932	5025	3620	7134

$4615 + 2024 = \boxed{} \rightarrow \boxed{T}$

$2116 + 2233 = \boxed{} \rightarrow \boxed{O}$

$1397 + 2223 = \boxed{} \rightarrow \boxed{E}$

$2375 + 1543 = \boxed{} \rightarrow \boxed{L}$

$3126 + 5552 = \boxed{} \rightarrow \boxed{R}$

$1081 + 961 = \boxed{} \rightarrow \boxed{G}$

$1492 + 1345 = \boxed{} \rightarrow \boxed{D}$

$3422 + 6349 = \boxed{} \rightarrow \boxed{W}$

$3342 + 3590 = \boxed{} \rightarrow \boxed{A}$

$3168 + 3966 = \boxed{} \rightarrow \boxed{S}$

$3155 + 3012 = \boxed{} \rightarrow \boxed{H}$

$1961 + 1836 = \boxed{} \rightarrow \boxed{N}$

$2546 + 2479 = \boxed{} \rightarrow \boxed{C}$

Scratch space:

CLUE 2 Subtraction

The gym scoreboard flickers. We must subtract the home team's fouls from their total points to reveal a secret locker combination.

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

T																	
8672	5242	3096	3220	1885	3220	4931	3096	2275	8672	8483	3637	8224	2996	2996	4739	3096	3220

		T		T						T				
5954	8224	8672	5242	8672	5242	3096	4739	3096	3871	8672	5242	4273	6144	8483

$$11800 - 3128 = \square \rightarrow \boxed{\text{T}}$$

$$5247 - 1376 = \square \rightarrow \boxed{\text{F}}$$

$$8614 - 4977 = \square \rightarrow \boxed{\text{R}}$$

$$3682 - 1407 = \square \rightarrow \boxed{\text{C}}$$

$$8771 - 2627 = \square \rightarrow \boxed{\text{N}}$$

$$7810 - 4714 = \square \rightarrow \boxed{\text{E}}$$

$$12204 - 3721 = \square \rightarrow \boxed{\text{D}}$$

$$6673 - 3677 = \square \rightarrow \boxed{\text{B}}$$

$$6746 - 1815 = \square \rightarrow \boxed{\text{P}}$$

$$9320 - 4078 = \square \rightarrow \boxed{\text{H}}$$

$$9271 - 3317 = \square \rightarrow \boxed{\text{W}}$$

$$4987 - 1767 = \square \rightarrow \boxed{\text{S}}$$

$$11456 - 3232 = \square \rightarrow \boxed{\text{I}}$$

$$6027 - 1754 = \square \rightarrow \boxed{\text{A}}$$

$$5996 - 4111 = \square \rightarrow \boxed{\text{U}}$$

$$9725 - 4986 = \square \rightarrow \boxed{\text{L}}$$

Scratch space:

CLUE 3 Fractions of a number

Only a fraction of the stadium lights are working. Calculating how many bulbs are lit reveals the suspect's favorite drill.

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

Diagram illustrating a sequence of numbers and their corresponding positions (1 to 20) in two rows. The top row shows the sequence: 19, 4, 21, 18, 2, 28, 27, 33, 34, 20, 2, 11, 12. The bottom row shows the sequence: 12, 28, 27, 19, 20, 8, 34, 19, 21, 12, 19, 4, 21, 27, 4, 2, 2, 19, 21, 20. The positions are indicated by the numbers below the boxes.

$$\frac{1}{4} \text{ of } 76 = \boxed{} \rightarrow \boxed{\text{T}}$$

$6/8$ of $36 = \boxed{} \rightarrow \boxed{\text{S}}$

$\frac{1}{5}$ of 60 = $\rightarrow$ **D**

$\frac{1}{3}$ of 33 = $\rightarrow$ **W**

$\frac{1}{3}$ of 99 = $\rightarrow$ **Y**

$2/8$ of 8 = $\rightarrow$ **0**

$2/6$ of $54 = \square \rightarrow \mathbf{N}$

$$\frac{2}{3} \text{ of } 30 = \boxed{} \rightarrow \boxed{\text{R}}$$

$4/5$ of $35 = \square \rightarrow \boxed{\text{I}}$

$2/4$ of 68 = $\rightarrow$ **C**

4/6 of 6 = → **H**

$$\frac{1}{8} \text{ of } 168 = \boxed{} \rightarrow \boxed{\text{E}}$$

$\frac{2}{3}$ of 12 = $\rightarrow$ **A**

Scratch space:

CLUE 4

Order of operations

Coach wrote a complex drills sequence on the whiteboard. Solving the order of operations gives us the security camera code.

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

W																		
49	18	73	17	70	39	29	67	25	9	70	18	41	67	11	72	60	11	18
17	39	60	41	18	40	17	70	72	60									

$5 \times 12 - 11 = \square \rightarrow \boxed{\text{W}}$

$1 + 5 \times 2 = \square \rightarrow \boxed{\text{I}}$

$12 \times 4 - 30 = \square \rightarrow \boxed{\text{E}}$

$4 + 3 \times 7 = \square \rightarrow \boxed{\text{B}}$

$63 + 2 \times 5 = \square \rightarrow \boxed{\text{F}}$

$1 + 2 \times 4 = \square \rightarrow \boxed{\text{L}}$

$11 \times 5 - 15 = \square \rightarrow \boxed{\text{C}}$

$18 + 9 \times 6 = \square \rightarrow \boxed{\text{R}}$

$7 + 5 \times 2 = \square \rightarrow \boxed{\text{O}}$

$15 + 7 \times 2 = \square \rightarrow \boxed{\text{D}}$

$25 + 7 \times 6 = \square \rightarrow \boxed{\text{A}}$

$35 + 7 \times 5 = \square \rightarrow \boxed{\text{U}}$

$5 \times 8 - 1 = \square \rightarrow \boxed{\text{N}}$

$25 + 7 \times 5 = \square \rightarrow \boxed{\text{T}}$

$6 \times 11 - 25 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

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

We need to divide the remaining team practice jerseys equally among the players to find out who missed the team bus.

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:

$10 \div 1 = \boxed{}$

$18 \div 2 = \boxed{}$

$40 \div 5 = \boxed{}$

$50 \div 10 = \boxed{}$

$6 \div 2 = \boxed{}$

$30 \div 5 = \boxed{}$

$2 \div 1 = \boxed{}$

$121 \div 11 = \boxed{}$

$132 \div 11 = \boxed{}$

$12 \div 12 = \boxed{}$

$70 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain performs a crossover dribble, then bounces high on spring action heels.
2. The villain sinks a three point shot, then locks down with ankle guard straps.
3. The villain leaps for a slam dunk spark, then jumps high with air pump soles.
4. The villain leaps for a slam dunk spark, then locks down with ankle guard straps.
5. The villain performs a crossover dribble, then jumps high with air pump soles.
6. The villain performs a crossover dribble, then lights up the court with neon glow laces.
7. The villain sinks a three point shot, then stops on a dime with grip tech tread.
8. The villain scores with a sky hook shot, then jumps high with air pump soles.
9. The villain tosses a no look pass, then bounces high on spring action heels.
10. The villain leaps for a slam dunk spark, then bounces high on spring action heels.
11. The villain sinks a three point shot, then bounces high on spring action heels.
12. The villain tosses a no look pass, then stops on a dime with grip tech tread.

Answer Key

The Championship Trophy Caper

Culprit: Giannis Antetokounmpo

Slam Dunk Spark · Ankle Guard Straps · Left handed dribbler · Blue Hair Tie · Noisy Crowds

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE TARGET DOES NOT WEAR NEON GLOW LACES"

$4615 + 2024 = 6639$ (T) · $2116 + 2233 = 4349$ (O) · $1397 + 2223 = 3620$ (E) · $2375 + 1543 = 3918$ (L) · $3126 + 5552 = 8678$ (R) · $1081 + 961 = 2042$ (G) · $1492 + 1345 = 2837$ (D) · $3422 + 6349 = 9771$ (W) · $3342 + 3590 = 6932$ (A) · $3168 + 3966 = 7134$ (S) · $3155 + 3012 = 6167$ (H) · $1961 + 1836 = 3797$ (N) · $2546 + 2479 = 5025$ (C)

Clue 2 (Subtraction): "THE SUSPECT DRIBBLES WITH THE LEFT HAND"

$11800 - 3128 = 8672$ (T) · $5247 - 1376 = 3871$ (F) · $8614 - 4977 = 3637$ (R) · $3682 - 1407 = 2275$ (C) · $8771 - 2627 = 6144$ (N) · $7810 - 4714 = 3096$ (E) · $12204 - 3721 = 8483$ (D) · $6673 - 3677 = 2996$ (B) · $6746 - 1815 = 4931$ (P) · $9320 - 4078 = 5242$ (H) · $9271 - 3317 = 5954$ (W) · $4987 - 1767 = 3220$ (S) · $11456 - 3232 = 8224$ (I) · $6027 - 1754 = 4273$ (A) · $5996 - 4111 = 1885$ (U) · $9725 - 4986 = 4739$ (L)

Clue 3 (Fractions of a number): "THE NOISY CROWD DISTRACTED THE SHOOTER"

$1/4$ of 76 = 19 (T) · $6/8$ of 36 = 27 (S) · $1/5$ of 60 = 12 (D) · $1/3$ of 33 = 11 (W) · $1/3$ of 99 = 33 (Y) · $2/8$ of 8 = 2 (O) · $2/6$ of 54 = 18 (N) · $2/3$ of 30 = 20 (R) · $4/5$ of 35 = 28 (I) · $2/4$ of 68 = 34 (C) · $4/6$ of 6 = 4 (H) · $1/8$ of 168 = 21 (E) · $2/3$ of 12 = 8 (A)

Clue 4 (Order of operations): "WE FOUND A BLUE HAIR TIE ON THE COURT"

$5 \times 12 - 11 = 49$ (W) · $1 + 5 \times 2 = 11$ (I) · $12 \times 4 - 30 = 18$ (E) · $4 + 3 \times 7 = 25$ (B) · $63 + 2 \times 5 = 73$ (F) · $1 + 2 \times 4 = 9$ (L) · $11 \times 5 - 15 = 40$ (C) · $18 + 9 \times 6 = 72$ (R) · $7 + 5 \times 2 = 17$ (O) · $15 + 7 \times 2 = 29$ (D) · $25 + 7 \times 6 = 67$ (A) · $35 + 7 \times 5 = 70$ (U) · $5 \times 8 - 1 = 39$ (N) · $25 + 7 \times 5 = 60$ (T) · $6 \times 11 - 25 = 41$ (H)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Giannis Antetokounmpo

$10 \div 1 = 10$ · $18 \div 2 = 9$ · $40 \div 5 = 8$ · $50 \div 10 = 5$ · $6 \div 2 = 3$ · $30 \div 5 = 6$ · $2 \div 1 = 2$ · $121 \div 11 = 11$ · $132 \div 11 = 12$ · $12 \div 12 = 1$ · $70 \div 10 = 7$