



The Case of the Missing Championship Trophy

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

Detective: _____ Date: _____

The MVP trophy has vanished right before the championship game at the Hoop Arena! A mysterious player snuck onto the court and took it. It is up to you to crack the case, solve the basketball math puzzles, 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 sneaky player 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	LUCKY GEAR	SHOOTING HAND	HEADBAND STYLE	DEFENSIVE KRYPTONITE
Kawhi Leonard	Ankle-Breaking Crossover	Sleeve with Fire Graphics	Left-Handed Shooter	Thick Terrycloth Headband	Slippery Wet Spot on Court
Jimmy Butler	Gravity-Defying Windmill Dunk	Gold Medal Necklace	Right-Handed Shooter	No Headband at All	Double-Team Press
Jayson Tatum	Half-Court Buzzer Beater	Super-Grip Wristband	Left-Handed Shooter	Thick Terrycloth Headband	Loud Squeaking Sneaker Noise
Giannis Antetokounmpo	No-Look Behind-the-Back Pass	Squeaky Neon Sneakers	Right-Handed Shooter	No Headband at All	Slippery Wet Spot on Court
Devin Booker	Half-Court Buzzer Beater	Super-Grip Wristband	Left-Handed Shooter	Thin Elastic Hair Tie	Loud Squeaking Sneaker Noise
DeAnthony Fox	Gravity-Defying Windmill Dunk	Sleeve with Fire Graphics	Left-Handed Shooter	No Headband at All	Slippery Wet Spot on Court
Paul George	Half-Court Buzzer Beater	Striped Crew Socks	Right-Handed Shooter	Thick Terrycloth Headband	Loud Squeaking Sneaker Noise
Kyrie Irving	Half-Court Buzzer Beater	Gold Medal Necklace	Left-Handed Shooter	Thick Terrycloth Headband	Slippery Wet Spot on Court
Chris Paul	Lightning-Fast Fastbreak	Squeaky Neon Sneakers	Left-Handed Shooter	No Headband at All	Slippery Wet Spot on Court
Anthony Davis	Gravity-Defying Windmill Dunk	Super-Grip Wristband	Right-Handed Shooter	Thick Terrycloth Headband	Slippery Wet Spot on Court
Tyrese Haliburton	Gravity-Defying Windmill Dunk	Super-Grip Wristband	Left-Handed Shooter	No Headband at All	Slippery Wet Spot on Court
Donovan Mitchell	Lightning-Fast Fastbreak	Sleeve with Fire Graphics	Left-Handed Shooter	Thin Elastic Hair Tie	Double-Team Press
Luka Doncic	Lightning-Fast Fastbreak	Striped Crew Socks	Left-Handed Shooter	No Headband at All	Loud Squeaking Sneaker Noise
Jalen Brunson	No-Look Behind-the-Back Pass	Super-Grip Wristband	Right-Handed Shooter	Thick Terrycloth Headband	Slippery Wet Spot on Court
Nikola Jokic	Half-Court Buzzer Beater	Super-Grip Wristband	Right-Handed Shooter	Thin Elastic Hair Tie	Slippery Wet Spot on Court
Bam Adebayo	Gravity-Defying Windmill Dunk	Gold Medal Necklace	Left-Handed Shooter	No Headband at All	Loud Squeaking Sneaker Noise
Kevin Durant	Lightning-Fast Fastbreak	Gold Medal Necklace	Left-Handed Shooter	No Headband at All	Slippery Wet Spot on Court
Damian Lillard	No-Look Behind-the-Back Pass	Squeaky Neon Sneakers	Left-Handed Shooter	No Headband at All	Double-Team Press
Steph Curry	Half-Court Buzzer Beater	Striped Crew Socks	Left-Handed Shooter	No Headband at All	Slippery Wet Spot on Court
Shai Gilgeous-Alexander	No-Look Behind-the-Back Pass	Sleeve with Fire Graphics	Right-Handed Shooter	Thick Terrycloth Headband	Double-Team Press
Ja Morant	Ankle-Breaking Crossover	Gold Medal Necklace	Right-Handed Shooter	Thick Terrycloth Headband	Loud Squeaking Sneaker Noise

CLUE 1

Multiplication facts (1-12)

We checked the equipment room storage. Coach locked the brand new game balls in rows, and we need to multiply the boxes to find if any are missing.

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

T																			
54	132	40	24	27	40	10	7	100	54	132	60	40	14	55	12	40	24		
		T																	
27	12	54	9	40	10	70	10	14	60	70	40	24	15	40	40	108	40		

$6 \times 9 = \square \rightarrow \boxed{\text{T}}$

$7 \times 10 = \square \rightarrow \boxed{\text{R}}$

$1 \times 9 = \square \rightarrow \boxed{\text{W}}$

$12 \times 9 = \square \rightarrow \boxed{\text{V}}$

$12 \times 11 = \square \rightarrow \boxed{\text{H}}$

$10 \times 6 = \square \rightarrow \boxed{\text{I}}$

$11 \times 5 = \square \rightarrow \boxed{\text{D}}$

$9 \times 3 = \square \rightarrow \boxed{\text{N}}$

$10 \times 10 = \square \rightarrow \boxed{\text{Y}}$

$7 \times 1 = \square \rightarrow \boxed{\text{K}}$

$2 \times 5 = \square \rightarrow \boxed{\text{A}}$

$10 \times 4 = \square \rightarrow \boxed{\text{E}}$

$4 \times 3 = \square \rightarrow \boxed{\text{O}}$

$3 \times 5 = \square \rightarrow \boxed{\text{L}}$

$2 \times 7 = \square \rightarrow \boxed{\text{F}}$

$12 \times 2 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 2

The gym teacher recorded the points from three different practice courts. Adding them all up will reveal the total points scored before the theft.

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

4702 8441 6086 5066 4012 7400 7400 9035 4012 3936 4012 8432 9035 7400 6086 5807 4702

8441 9035 3936 9882 6086 9882 8432 8441 7785 7785 4702 6086 9067

$$1696 + 3006 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2589 + 5196 = \boxed{} \rightarrow \boxed{0}$$

$$5593 + 4289 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$1206 + 2730 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2928 + 6139 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$3500 + 1566 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$1889 + 2123 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$5860 + 2581 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2590 + 4810 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$3091 + 2716 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$3283 + 2803 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$4737 + 3695 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$3141 + 5894 = \boxed{} \rightarrow \boxed{\text{A}}$$

Scratch space:

CLUE 3

Subtraction

The scoreboard got damaged during the heist. Subtracting the elapsed time from the total quarter length gives us the exact second the lights went out.

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

T			T															T
6984	6191	3753	6984	6191	6213	3753	3649	5257	8607	6213	2628	5257	4147	1862	4223	7339	3753	6984
		T									T							
2628	4223	6984	3507	6191	4147	3649	3507	4147	5630	2676	6984							

$7154 - 170 = \square \rightarrow \boxed{\text{T}}$

$5654 - 2005 = \square \rightarrow \boxed{\text{F}}$

$8177 - 1986 = \square \rightarrow \boxed{\text{H}}$

$4185 - 678 = \square \rightarrow \boxed{\text{C}}$

$6425 - 212 = \square \rightarrow \boxed{\text{I}}$

$7013 - 1383 = \square \rightarrow \boxed{\text{U}}$

$11491 - 4152 = \square \rightarrow \boxed{\text{W}}$

$6744 - 1487 = \square \rightarrow \boxed{\text{S}}$

$8097 - 3950 = \square \rightarrow \boxed{\text{O}}$

$4470 - 1794 = \square \rightarrow \boxed{\text{R}}$

$10011 - 1404 = \square \rightarrow \boxed{\text{L}}$

$3287 - 1425 = \square \rightarrow \boxed{\text{N}}$

$4078 - 325 = \square \rightarrow \boxed{\text{E}}$

$7280 - 4652 = \square \rightarrow \boxed{\text{P}}$

$6229 - 2006 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4

Fractions of a number

Only a fraction of the team jerseys were washed. Calculating this fraction of the total pile helps us figure out how many clean jerseys the thief bypassed.

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

T																	T
34	39	13	3	38	12	12	19	38	32	11	5	13	28	32	5	34	

31	13	19	40	19	32	27	39	13	19	11	2	19	32	11

$2/6 \text{ of } 102 = \square \rightarrow \text{T}$

$3/10 \text{ of } 90 = \square \rightarrow \text{Y}$

$1/4 \text{ of } 152 = \square \rightarrow \text{I}$

$1/2 \text{ of } 10 = \square \rightarrow \text{O}$

$4/8 \text{ of } 64 = \square \rightarrow \text{N}$

$5/10 \text{ of } 78 = \square \rightarrow \text{H}$

$1/8 \text{ of } 104 = \square \rightarrow \text{E}$

$8/10 \text{ of } 35 = \square \rightarrow \text{S}$

$1/8 \text{ of } 88 = \square \rightarrow \text{D}$

$1/10 \text{ of } 30 = \square \rightarrow \text{V}$

$3/5 \text{ of } 20 = \square \rightarrow \text{L}$

$4/8 \text{ of } 38 = \square \rightarrow \text{A}$

$1/6 \text{ of } 186 = \square \rightarrow \text{W}$

$4/6 \text{ of } 3 = \square \rightarrow \text{B}$

$1/2 \text{ of } 80 = \square \rightarrow \text{R}$

Scratch space:

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

The tournament director needs to split the remaining sports drinks equally among the visiting teams. Dividing them fairly gives us our final clue.

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:

$88 \div 11 = \square$

$30 \div 5 = \square$

$48 \div 4 = \square$

$16 \div 8 = \square$

$81 \div 9 = \square$

$132 \div 12 = \square$

$8 \div 2 = \square$

$50 \div 10 = \square$

$100 \div 10 = \square$

$12 \div 4 = \square$

$77 \div 11 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain leads a lightning-fast fastbreak, then flashes a heavy gold medal necklace.
2. The villain sinks a thrilling half-court buzzer beater, then flashes a heavy gold medal necklace.
3. The villain tosses a brilliant no-look pass, then squeaks away in neon sneakers.
4. The villain leads a lightning-fast fastbreak, then swipes a super-grip wristband.
5. The villain throws down a gravity-defying windmill dunk, then flashes a heavy gold medal necklace.
6. The villain sinks a thrilling half-court buzzer beater, then pulls up striped crew socks.
7. The villain executes an ankle-breaking crossover, then pulls up striped crew socks.
8. The villain throws down a gravity-defying windmill dunk, then swipes a super-grip wristband.
9. The villain tosses a brilliant no-look pass, then flashes a heavy gold medal necklace.
10. The villain tosses a brilliant no-look pass, then adjusts a cool sleeve with fire graphics.
11. The villain leads a lightning-fast fastbreak, then pulls up striped crew socks.
12. The villain leads a lightning-fast fastbreak, then squeaks away in neon sneakers.

Answer Key

The Case of the Missing Championship Trophy

Culprit: Kevin Durant

Lightning-Fast Fastbreak · Gold Medal Necklace · Left-Handed Shooter · No Headband at All · Slippery Wet Spot on Court

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY THIEF DOES NOT WEAR A FIRE SLEEVE"

$6 \times 9 = 54$ (T) · $7 \times 10 = 70$ (R) · $1 \times 9 = 9$ (W) · $12 \times 9 = 108$ (V) · $12 \times 11 = 132$ (H) · $10 \times 6 = 60$ (I) · $11 \times 5 = 55$ (D) · $9 \times 3 = 27$ (N) · $10 \times 10 = 100$ (Y) · $7 \times 1 = 7$ (K) · $2 \times 5 = 10$ (A) · $10 \times 4 = 40$ (E) · $4 \times 3 = 12$ (O) · $3 \times 5 = 15$ (L) · $2 \times 7 = 14$ (F) · $12 \times 2 = 24$ (S)

Clue 2 (Addition): "THE VILLAIN IS A LEFT HANDED SHOOTER"

$1696 + 3006 = 4702$ (T) · $2589 + 5196 = 7785$ (O) · $5593 + 4289 = 9882$ (D) · $1206 + 2730 = 3936$ (N) · $2928 + 6139 = 9067$ (R) · $3500 + 1566 = 5066$ (V) · $1889 + 2123 = 4012$ (I) · $5860 + 2581 = 8441$ (H) · $2590 + 4810 = 7400$ (L) · $3091 + 2716 = 5807$ (F) · $3283 + 2803 = 6086$ (E) · $4737 + 3695 = 8432$ (S) · $3141 + 5894 = 9035$ (A)

Clue 3 (Subtraction): "THE THIEF SLIPS ON A WET PATCH OF COURT"

$7154 - 170 = 6984$ (T) · $5654 - 2005 = 3649$ (F) · $8177 - 1986 = 6191$ (H) · $4185 - 678 = 3507$ (C) · $6425 - 212 = 6213$ (I) · $7013 - 1383 = 5630$ (U) · $11491 - 4152 = 7339$ (W) · $6744 - 1487 = 5257$ (S) · $8097 - 3950 = 4147$ (O) · $4470 - 1794 = 2676$ (R) · $10011 - 1404 = 8607$ (L) · $3287 - 1425 = 1862$ (N) · $4078 - 325 = 3753$ (E) · $7280 - 4652 = 2628$ (P) · $6229 - 2006 = 4223$ (A)

Clue 4 (Fractions of a number): "THE VILLAIN DOES NOT WEAR ANY HEADBAND"

$2/6$ of 102 = 34 (T) · $3/10$ of 90 = 27 (Y) · $1/4$ of 152 = 38 (I) · $1/2$ of 10 = 5 (O) · $4/8$ of 64 = 32 (N) · $5/10$ of 78 = 39 (H) · $1/8$ of 104 = 13 (E) · $8/10$ of 35 = 28 (S) · $1/8$ of 88 = 11 (D) · $1/10$ of 30 = 3 (V) · $3/5$ of 20 = 12 (L) · $4/8$ of 38 = 19 (A) · $1/6$ of 186 = 31 (W) · $4/6$ of 3 = 2 (B) · $1/2$ of 80 = 40 (R)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Kevin Durant

$88 \div 11 = 8$ · $30 \div 5 = 6$ · $48 \div 4 = 12$ · $16 \div 8 = 2$ · $81 \div 9 = 9$ · $132 \div 12 = 11$ · $8 \div 2 = 4$ · $50 \div 10 = 5$ · $100 \div 10 = 10$ · $12 \div 4 = 3$ · $77 \div 11 = 7$