



The Mystery of the Stolen Trophy

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

Detective: _____ **Date:** _____

Someone swapped the Golden Basketball trophy right before the championship game! Help Detective Dash search the arena, interview suspects, and crack the clues to find out who stole it.

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 culprit 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	HEADWEAR	COURT DISTRACTION
Anthony Davis	Sky Hook	Striped Socks	Right Handed	Blue Visor	Loud Whistles
Devin Booker	Sky Hook	High Top Sneakers	Right Handed	Gold Sweatband	Squeaky Shoes
Luka Doncic	Sky Hook	High Top Sneakers	Right Handed	Blue Visor	Loud Whistles
Kobe Bryant	Slam Dunk	Padded Headband	Right Handed	Blue Visor	Loud Whistles
Kevin Durant	Sky Hook	Elbow Sleeve	Left Handed	Gold Sweatband	Squeaky Shoes
Shaquille ONeal	Slam Dunk	Neon Wristband	Right Handed	Gold Sweatband	Flashing Cameras
Joel Embiid	Crossover Dribble	Neon Wristband	Right Handed	Red Cap	Loud Whistles
Damian Lillard	Sky Hook	Elbow Sleeve	Right Handed	Red Cap	Loud Whistles
Jayson Tatum	Fadeaway Jumper	Neon Wristband	Left Handed	Red Cap	Flashing Cameras
Jimmy Butler	Slam Dunk	Neon Wristband	Left Handed	Blue Visor	Loud Whistles
Magic Johnson	Fadeaway Jumper	Neon Wristband	Right Handed	Blue Visor	Flashing Cameras
Larry Bird	Euro Step	Elbow Sleeve	Right Handed	Blue Visor	Loud Whistles
Giannis Antetokounmpo	Crossover Dribble	Elbow Sleeve	Right Handed	Blue Visor	Squeaky Shoes
Chris Paul	Fadeaway Jumper	Padded Headband	Left Handed	Gold Sweatband	Squeaky Shoes
Nikola Jokic	Slam Dunk	High Top Sneakers	Left Handed	Blue Visor	Loud Whistles
James Harden	Euro Step	Padded Headband	Left Handed	Red Cap	Squeaky Shoes
Coach Carter	Crossover Dribble	High Top Sneakers	Left Handed	Red Cap	Flashing Cameras
Michael Jordan	Crossover Dribble	Elbow Sleeve	Right Handed	Gold Sweatband	Flashing Cameras
Steph Curry	Sky Hook	Padded Headband	Right Handed	Gold Sweatband	Squeaky Shoes
Kyrie Irving	Euro Step	Neon Wristband	Left Handed	Blue Visor	Flashing Cameras
LeBron James	Slam Dunk	Neon Wristband	Right Handed	Blue Visor	Loud Whistles

CLUE 1 Place value

Detective Dash checked the digital scoreboard digit values to decrypt the first code.

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

T									T						T
10	300	7000	800	60	40	900	9000	500	10	2000	500	2000	90	50	10
								T							
6000	7000	80	9000	300	500	700	300	10	50	900	1000	90	7000	80	4000

What is the value of the 1 in 2,410? → **T**

What is the value of the 9 in 953? → **P**

What is the value of the 4 in 642? → **L**

What is the value of the 3 in 328? → **H**

What is the value of the 6 in 86,358? → **W**

What is the value of the 9 in 9,408? → **R**

What is the value of the 7 in 57,325? → **E**

What is the value of the 7 in 710? → **G**

What is the value of the 6 in 268? → **U**

What is the value of the 5 in 1,589? → **I**

What is the value of the 8 in 3,683? → **A**

What is the value of the 4 in 4,883? → **K**

What is the value of the 9 in 5,696? → **N**

What is the value of the 5 in 354? → **O**

What is the value of the 2 in 2,701? → **D**

What is the value of the 1 in 81,549? → **S**

What is the value of the 8 in 9,831? → **C**

Scratch space:

CLUE 2 Addition

Dash added up the snack stand receipts to trace where the suspect bought popcorn.

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

T									T										T
221	230	774	778	618	778	385	774	578	221	357	463	778	463	852	542	695	230	221	
230	463	673	899	774	899	385	600	463	721	774	852								

$74 + 147 = \boxed{} \rightarrow \boxed{\text{T}}$

$249 + 136 = \boxed{} \rightarrow \boxed{\text{P}}$

$346 + 327 = \boxed{} \rightarrow \boxed{\text{N}}$

$138 + 92 = \boxed{} \rightarrow \boxed{\text{H}}$

$397 + 203 = \boxed{} \rightarrow \boxed{\text{L}}$

$275 + 267 = \boxed{} \rightarrow \boxed{\text{I}}$

$233 + 488 = \boxed{} \rightarrow \boxed{\text{Y}}$

$443 + 252 = \boxed{} \rightarrow \boxed{\text{G}}$

$372 + 527 = \boxed{} \rightarrow \boxed{\text{D}}$

$420 + 432 = \boxed{} \rightarrow \boxed{\text{R}}$

$358 + 220 = \boxed{} \rightarrow \boxed{\text{C}}$

$340 + 434 = \boxed{} \rightarrow \boxed{\text{E}}$

$494 + 284 = \boxed{} \rightarrow \boxed{\text{S}}$

$232 + 386 = \boxed{} \rightarrow \boxed{\text{U}}$

$236 + 121 = \boxed{} \rightarrow \boxed{\text{W}}$

$141 + 322 = \boxed{} \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 3

Subtraction

The detective subtracted the practice drill times to see who left early.

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

L										L									
599	550	879	627	500	375	849	663	306	599	318	663	663	590	261	650	318	627		

					L														
306	375	318	590	879	599	615	650	849	306	261	500	261	678						

$848 - 249 = \square \rightarrow \boxed{\text{L}}$

$564 - 303 = \square \rightarrow \boxed{\text{A}}$

$454 - 79 = \square \rightarrow \boxed{\text{H}}$

$917 - 290 = \square \rightarrow \boxed{\text{D}}$

$931 - 253 = \square \rightarrow \boxed{\text{Y}}$

$1130 - 251 = \square \rightarrow \boxed{\text{U}}$

$483 - 165 = \square \rightarrow \boxed{\text{E}}$

$716 - 101 = \square \rightarrow \boxed{\text{P}}$

$780 - 190 = \square \rightarrow \boxed{\text{C}}$

$1050 - 201 = \square \rightarrow \boxed{\text{I}}$

$626 - 320 = \square \rightarrow \boxed{\text{T}}$

$794 - 244 = \square \rightarrow \boxed{\text{O}}$

$864 - 364 = \square \rightarrow \boxed{\text{W}}$

$1035 - 385 = \square \rightarrow \boxed{\text{R}}$

$685 - 22 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

Dash multiplied the rows of seats in Section B to find the hidden notebook.

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

A												A	
24	30	56	72	144	33	10	55	121	2	64	24	55	

									A										
11	2	121	15	15	144	11	54	144	24	2	50	27	144	50	2	121	15	27	81

$6 \times 4 = \square \rightarrow$ A	$3 \times 10 = \square \rightarrow$ B	$1 \times 10 = \square \rightarrow$ I
$9 \times 9 = \square \rightarrow$ Y	$2 \times 1 = \square \rightarrow$ R	$3 \times 5 = \square \rightarrow$ P
$11 \times 11 = \square \rightarrow$ O	$12 \times 12 = \square \rightarrow$ E	$7 \times 8 = \square \rightarrow$ L
$9 \times 6 = \square \rightarrow$ N	$8 \times 8 = \square \rightarrow$ W	$5 \times 11 = \square \rightarrow$ S
$11 \times 3 = \square \rightarrow$ V	$3 \times 9 = \square \rightarrow$ H	$10 \times 5 = \square \rightarrow$ T
$11 \times 1 = \square \rightarrow$ D	$8 \times 9 = \square \rightarrow$ U	

Scratch space:

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

The detective divided the basketballs into equal gym bags to reveal the last 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:

$11 \div 1 = \boxed{}$

$80 \div 10 = \boxed{}$

$90 \div 10 = \boxed{}$

$18 \div 6 = \boxed{}$

$6 \div 1 = \boxed{}$

$44 \div 11 = \boxed{}$

$12 \div 12 = \boxed{}$

$80 \div 8 = \boxed{}$

$108 \div 9 = \boxed{}$

$4 \div 2 = \boxed{}$

$55 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain thundered down a slam dunk, then adjusted an elbow sleeve.
2. The villain sank a fadeaway jumper, then pulled up striped socks.
3. The villain executed a sky hook, then laced up high top sneakers.
4. The villain dazzled with a crossover dribble, then laced up high top sneakers.
5. The villain drove with a euro step, then pulled up striped socks.
6. The villain drove with a euro step, then laced up high top sneakers.
7. The villain thundered down a slam dunk, then snapped a neon wristband.
8. The villain thundered down a slam dunk, then adjusted a padded headband.
9. The villain drove with a euro step, then adjusted an elbow sleeve.
10. The villain sank a fadeaway jumper, then snapped a neon wristband.
11. The villain executed a sky hook, then pulled up striped socks.
12. The villain executed a sky hook, then adjusted an elbow sleeve.

Answer Key

The Mystery of the Stolen Trophy

Culprit: LeBron James

Slam Dunk · Neon Wristband · Right Handed · Blue Visor · Loud Whistles

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE CULPRIT DID NOT WEAR HIGH TOP SNEAKERS"

What is the value of the 1 in 2,410? = 10 (T) · What is the value of the 9 in 953? = 900 (P) · What is the value of the 4 in 642? = 40 (L) · What is the value of the 3 in 328? = 300 (H) · What is the value of the 6 in 86,358? = 6000 (W) · What is the value of the 9 in 9,408? = 9000 (R) · What is the value of the 7 in 57,325? = 7000 (E) · What is the value of the 7 in 710? = 700 (G) · What is the value of the 6 in 268? = 60 (U) · What is the value of the 5 in 1,589? = 500 (I) · What is the value of the 8 in 3,683? = 80 (A) · What is the value of the 4 in 4,883? = 4000 (K) · What is the value of the 9 in 5,696? = 90 (N) · What is the value of the 5 in 354? = 50 (O) · What is the value of the 2 in 2,701? = 2000 (D) · What is the value of the 1 in 81,549? = 1000 (S) · What is the value of the 8 in 9,831? = 800 (C)

Clue 2 (Addition): "THE SUSPECT WAS A RIGHT HANDED PLAYER"

$74 + 147 = 221$ (T) · $249 + 136 = 385$ (P) · $346 + 327 = 673$ (N) · $138 + 92 = 230$ (H) · $397 + 203 = 600$ (L) · $275 + 267 = 542$ (I) · $233 + 488 = 721$ (Y) · $443 + 252 = 695$ (G) · $372 + 527 = 899$ (D) · $420 + 432 = 852$ (R) · $358 + 220 = 578$ (C) · $340 + 434 = 774$ (E) · $494 + 284 = 778$ (S) · $232 + 386 = 618$ (U) · $236 + 121 = 357$ (W) · $141 + 322 = 463$ (A)

Clue 3 (Subtraction): "LOUD WHISTLES SCARED THE CULPRIT AWAY"

$848 - 249 = 599$ (L) · $564 - 303 = 261$ (A) · $454 - 79 = 375$ (H) · $917 - 290 = 627$ (D) · $931 - 253 = 678$ (Y) · $1130 - 251 = 879$ (U) · $483 - 165 = 318$ (E) · $716 - 101 = 615$ (P) · $780 - 190 = 590$ (C) · $1050 - 201 = 849$ (I) · $626 - 320 = 306$ (T) · $794 - 244 = 550$ (O) · $864 - 364 = 500$ (W) · $1035 - 385 = 650$ (R) · $685 - 22 = 663$ (S)

Clue 4 (Multiplication facts (1-12)): "A BLUE VISOR WAS DROPPED NEAR THE TROPHY"

$6 \times 4 = 24$ (A) · $3 \times 10 = 30$ (B) · $1 \times 10 = 10$ (I) · $9 \times 9 = 81$ (Y) · $2 \times 1 = 2$ (R) · $3 \times 5 = 15$ (P) · $11 \times 11 = 121$ (O) · $12 \times 12 = 144$ (E) · $7 \times 8 = 56$ (L) · $9 \times 6 = 54$ (N) · $8 \times 8 = 64$ (W) · $5 \times 11 = 55$ (S) · $11 \times 3 = 33$ (V) · $3 \times 9 = 27$ (H) · $10 \times 5 = 50$ (T) · $11 \times 1 = 11$ (D) · $8 \times 9 = 72$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → LeBron James

$11 \div 1 = 11$ · $80 \div 10 = 8$ · $90 \div 10 = 9$ · $18 \div 6 = 3$ · $6 \div 1 = 6$ · $44 \div 11 = 4$ · $12 \div 12 = 1$ · $80 \div 8 = 10$ · $108 \div 9 = 12$ · $4 \div 2 = 2$ · $55 \div 11 = 5$