



The Championship Sneaker Caper

Grade 5 math · Place value, Rounding, Multiplication, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ Date: _____

The gold championship trophy has vanished right from center court! In its place, the Sneaker Snatcher left a flat basketball and a trail of high-tech gear prints. As the junior detective on the case, you must analyze the court stats, decode the sports telemetry, and find the culprit among the league stars before the post-game press conference begins.

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 Sneaker Snatcher 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	SNEAKER TECH	SHOOTING HAND	HEADBAND STYLE	DEFENSIVE KRYPTONITE
Bam Adebayo	Triple-Double Threat	Sticky Grip Soles	Right-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Stephen Curry	Sky-High Slam Dunk	Turbo Boost Laces	Left-Handed Shooter	No Headband Bald Look	Full-Court Press
Joel Embiid	Half-Court Buzzer Beater	Turbo Boost Laces	Right-Handed Shooter	Neon Green Headband	Double-Team Defense
Donovan Mitchell	Lightning Crossover	Gravity-Defying Springs	Right-Handed Shooter	No Headband Bald Look	Slippery Wet Floor
Luka Doncic	Sky-High Slam Dunk	Sonic Whistle Sensors	Left-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Paul George	Half-Court Buzzer Beater	Turbo Boost Laces	Left-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Anthony Edwards	Lightning Crossover	Sticky Grip Soles	Left-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Kawhi Leonard	Half-Court Buzzer Beater	Light-Up Glow Strips	Right-Handed Shooter	Neon Green Headband	Full-Court Press
Ja Morant	Half-Court Buzzer Beater	Light-Up Glow Strips	Left-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
DeAaron Fox	Sky-High Slam Dunk	Sonic Whistle Sensors	Left-Handed Shooter	Neon Green Headband	Double-Team Defense
Kevin Durant	Sky-High Slam Dunk	Sonic Whistle Sensors	Right-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Damian Lillard	No-Look Alley-Oop	Gravity-Defying Springs	Left-Handed Shooter	Neon Green Headband	Slippery Wet Floor
LeBron James	Half-Court Buzzer Beater	Gravity-Defying Springs	Left-Handed Shooter	Striped Retro Headband	Double-Team Defense
Devin Booker	Triple-Double Threat	Gravity-Defying Springs	Left-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Nikola Jokic	Triple-Double Threat	Light-Up Glow Strips	Left-Handed Shooter	Striped Retro Headband	Double-Team Defense
Jayson Tatum	Lightning Crossover	Sticky Grip Soles	Right-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Kyrie Irving	Triple-Double Threat	Gravity-Defying Springs	Right-Handed Shooter	Striped Retro Headband	Slippery Wet Floor
Anthony Davis	Half-Court Buzzer Beater	Sticky Grip Soles	Right-Handed Shooter	Striped Retro Headband	Double-Team Defense
Trae Young	Half-Court Buzzer Beater	Turbo Boost Laces	Left-Handed Shooter	No Headband Bald Look	Slippery Wet Floor
Giannis Antetokounmpo	Half-Court Buzzer Beater	Sonic Whistle Sensors	Left-Handed Shooter	Neon Green Headband	Full-Court Press
Jaylen Brown	Triple-Double Threat	Sticky Grip Soles	Left-Handed Shooter	Neon Green Headband	Full-Court Press

CLUE 1 Place value

The arena security system locked down the files. To read the first file, we must find the digit in the ten-thousands place of the player registration count.

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

T																			
300	70	100	400	900	100	30	10	10	5000	100	1000	30	5000	300	4000	1000	100		

				T															
20	70	900	1000	300	40	100	1000	100	30	1000	5000	50	1000						

What is the value of the 3 in 852,362? → **T**

What is the value of the 9 in 276,982? → **I**

What is the value of the 4 in 527,645? → **L**

What is the value of the 5 in 286,651? → **R**

What is the value of the 2 in 18,525? → **W**

What is the value of the 4 in 637,489? → **F**

What is the value of the 7 in 314,272? → **H**

What is the value of the 4 in 584,611? → **U**

What is the value of the 1 in 37,914? → **D**

What is the value of the 5 in 485,249? → **O**

What is the value of the 1 in 74,166? → **E**

What is the value of the 3 in 76,537? → **N**

What is the value of the 1 in 341,739? → **S**

Scratch space:

CLUE 2 Rounding

The arena speed camera captured the getaway runner, but the output screen rounds all speeds to the nearest tenth of a second. Solve the rounding puzzle to see the clip.

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

L																
2900	230	7000	3000	300	290	500	9000	230	9000	50	300	30	30	3000	230	3700
												L	L			
4300	290	3700	70	50	30	500	3000	300	230	130	290	2900	2900			

Round 2,893 to the nearest hundred → **L**

Round 7,275 to the nearest thousand → **F**

Round 134 to the nearest ten → **B**

Round 73 to the nearest ten → **K**

Round 31 to the nearest ten → **O**

Round 3,410 to the nearest thousand → **T**

Round 49 to the nearest ten → **S**

Round 292 to the nearest ten → **A**

Round 9,136 to the nearest thousand → **D**

Round 4,337 to the nearest hundred → **M**

Round 326 to the nearest hundred → **H**

Round 229 to the nearest ten → **E**

Round 547 to the nearest hundred → **N**

Round 3,739 to the nearest hundred → **R**

Scratch space:

CLUE 3
Multiplication facts (1-12)

We found stacks of basketball crates in the team warehouse. Multiplying the rows by the crates in each section will unlock the locker room door containing the next clue.

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

A																		
49	32	108	56	50	50	110	28	25	120	108	4	4	28	28	9	56	22	32
27	33	110	56	28	11	28	56	50										

$7 \times 7 = \square \rightarrow \mathbf{A}$	$10 \times 11 = \square \rightarrow \mathbf{E}$	$5 \times 10 = \square \rightarrow \mathbf{P}$
$9 \times 12 = \square \rightarrow \mathbf{L}$	$9 \times 3 = \square \rightarrow \mathbf{T}$	$7 \times 4 = \square \rightarrow \mathbf{R}$
$11 \times 1 = \square \rightarrow \mathbf{G}$	$7 \times 8 = \square \rightarrow \mathbf{I}$	$10 \times 12 = \square \rightarrow \mathbf{F}$
$11 \times 2 = \square \rightarrow \mathbf{N}$	$1 \times 4 = \square \rightarrow \mathbf{O}$	$4 \times 8 = \square \rightarrow \mathbf{S}$
$3 \times 11 = \square \rightarrow \mathbf{H}$	$1 \times 9 = \square \rightarrow \mathbf{U}$	$5 \times 5 = \square \rightarrow \mathbf{Y}$

Scratch space:

Fractions of a number

The team trainers need to hand out energy drinks to the defense. Finding the exact fraction of the supply remaining will lead us to the suspect's water station.

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

A number line from 0 to 100 with boxes for numbers. The number 32 is highlighted in orange and labeled 'S'. The numbers 32, 30, 16, 20, 36, 31, 10, 37, 9, 40, 16, 20, 23, 11, 9, 32, 2, 31, 37, 30, 40, 31, 26, 20, 7, 10 are shown below the boxes.

$$\frac{1}{6} \text{ of } 192 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1/2 \text{ of } 62 = \boxed{} \rightarrow \boxed{\text{E}}$$

5/10 of 14 = → **N**

$3/6$ of $22 = \square \rightarrow \boxed{\mathbf{W}}$

$4/5$ of 20 = $\rightarrow$ **R**

$\frac{1}{4}$ of 36 = $\rightarrow$ **A**

5/10 of 74 = → **F**

2/10 of 10 = → **L**

$$3/6 \text{ of } 52 = \boxed{} \rightarrow \boxed{\text{H}}$$

6/8 of 40 = → **T**

$4/8$ of $80 = \boxed{} \rightarrow \boxed{\text{B}}$

$$2/10 \text{ of } 180 = \boxed{} \rightarrow \boxed{\text{P}}$$

5/10 of 46 = → **C**

5/6 of 24 = →

$5/6$ of 12 = $\rightarrow$ **D**

Scratch space:

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

The referee needs to divide the court into equal zones to sweep for glowing shoe prints. Dividing the total floor boards by the guard count reveals the 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:

$72 \div 8 = \boxed{}$

$21 \div 3 = \boxed{}$

$32 \div 8 = \boxed{}$

$10 \div 5 = \boxed{}$

$9 \div 3 = \boxed{}$

$42 \div 7 = \boxed{}$

$1 \div 1 = \boxed{}$

$64 \div 8 = \boxed{}$

$22 \div 2 = \boxed{}$

$20 \div 4 = \boxed{}$

$10 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain throws a no-look alley-oop, then activates gravity-defying springs.
2. The villain sinks a half-court buzzer beater, then engages sticky grip soles.
3. The villain performs a sky-high slam dunk, then flashes light-up glow strips.
4. The villain sinks a half-court buzzer beater, then turns on turbo boost laces.
5. The villain throws a no-look alley-oop, then turns on turbo boost laces.
6. The villain throws a no-look alley-oop, then engages sticky grip soles.
7. The villain executes a lightning crossover, then engages sticky grip soles.
8. The villain sinks a half-court buzzer beater, then triggers sonic whistle sensors.
9. The villain sinks a half-court buzzer beater, then flashes light-up glow strips.
10. The villain secures a triple-double threat, then turns on turbo boost laces.
11. The villain executes a lightning crossover, then flashes light-up glow strips.
12. The villain secures a triple-double threat, then activates gravity-defying springs.

Answer Key

The Championship Sneaker Caper

Culprit: Devin Booker

Triple-Double Threat · Gravity-Defying Springs · Left-Handed Shooter · Striped Retro Headband · Slippery Wet Floor

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE FIEND DOES NOT USE WHISTLE SENSORS"

What is the value of the 3 in 852,362? = 300 (T) · What is the value of the 9 in 276,982? = 900 (I) · What is the value of the 4 in 527,645? = 40 (L) · What is the value of the 5 in 286,651? = 50 (R) · What is the value of the 2 in 18,525? = 20 (W) · What is the value of the 4 in 637,489? = 400 (F) · What is the value of the 7 in 314,272? = 70 (H) · What is the value of the 4 in 584,611? = 4000 (U) · What is the value of the 1 in 37,914? = 10 (D) · What is the value of the 5 in 485,249? = 5000 (O) · What is the value of the 1 in 74,166? = 100 (E) · What is the value of the 3 in 76,537? = 30 (N) · What is the value of the 1 in 341,739? = 1000 (S)

Clue 2 (Rounding): "LEFT HANDED SHOOTER MARKS ON THE BALL"

Round 2,893 to the nearest hundred = 2900 (L) · Round 7,275 to the nearest thousand = 7000 (F) · Round 134 to the nearest ten = 130 (B) · Round 73 to the nearest ten = 70 (K) · Round 31 to the nearest ten = 30 (O) · Round 3,410 to the nearest thousand = 3000 (T) · Round 49 to the nearest ten = 50 (S) · Round 292 to the nearest ten = 290 (A) · Round 9,136 to the nearest thousand = 9000 (D) · Round 4,337 to the nearest hundred = 4300 (M) · Round 326 to the nearest hundred = 300 (H) · Round 229 to the nearest ten = 230 (E) · Round 547 to the nearest hundred = 500 (N) · Round 3,739 to the nearest hundred = 3700 (R)

Clue 3 (Multiplication facts (1-12)): "A SLIPPERY FLOOR RUINS THEIR GRIP"

$7 \times 7 = 49$ (A) · $10 \times 11 = 110$ (E) · $5 \times 10 = 50$ (P) · $9 \times 12 = 108$ (L) · $9 \times 3 = 27$ (T) · $7 \times 4 = 28$ (R) · $11 \times 1 = 11$ (G) · $7 \times 8 = 56$ (I) · $10 \times 12 = 120$ (F) · $11 \times 2 = 22$ (N) · $1 \times 4 = 4$ (O) · $4 \times 8 = 32$ (S) · $3 \times 11 = 33$ (H) · $1 \times 9 = 9$ (U) · $5 \times 5 = 25$ (Y)

Clue 4 (Fractions of a number): "STRIPED FABRIC WAS LEFT BEHIND"

$\frac{1}{6}$ of 192 = 32 (S) · $\frac{1}{2}$ of 62 = 31 (E) · $\frac{5}{10}$ of 14 = 7 (N) · $\frac{3}{6}$ of 22 = 11 (W) · $\frac{4}{5}$ of 20 = 16 (R) · $\frac{1}{4}$ of 36 = 9 (A) · $\frac{5}{10}$ of 74 = 37 (F) · $\frac{2}{10}$ of 10 = 2 (L) · $\frac{3}{6}$ of 52 = 26 (H) · $\frac{6}{8}$ of 40 = 30 (T) · $\frac{4}{8}$ of 80 = 40 (B) · $\frac{2}{10}$ of 180 = 36 (P) · $\frac{5}{10}$ of 46 = 23 (C) · $\frac{5}{6}$ of 24 = 20 (I) · $\frac{5}{6}$ of 12 = 10 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Devin Booker

$72 \div 8 = 9$ · $21 \div 3 = 7$ · $32 \div 8 = 4$ · $10 \div 5 = 2$ · $9 \div 3 = 3$ · $42 \div 7 = 6$ · $1 \div 1 = 1$ · $64 \div 8 = 8$ · $22 \div 2 = 11$ · $20 \div 4 = 5$ · $10 \div 1 = 10$