



The Sneaker Snatcher of Hoop City

Grade 5 math · Place value, Multiplication, Rounding, Fractions of a number, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into the Hoop City Arena and snatched the Golden Championship Sneaker right out of the trophy case! The Head Coach needs your help. Look at the team roster and find the culprit before the big game starts tonight.

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	SUPER GEAR	SHOOTING HAND	HEADBAND COLOR	DEFENSIVE WEAKNESS
Kevin	Ankle Breaker	Squeaky Shoes	Left-Handed	Blue Headband	Travel Violations
Jimmy	Ankle Breaker	Squeaky Shoes	Left-Handed	Blue Headband	Double Dribble
Zion	Slam Dunk	Squeaky Shoes	Left-Handed	Blue Headband	Travel Violations
Shai	Half-Court Hook	Squeaky Shoes	Right-Handed	Red Headband	Shot Clock Pressure
Stephen	Three-Point Swish	Sticky Grip Gloves	Right-Handed	Red Headband	Travel Violations
Kawhi	Three-Point Swish	Bouncing Socks	Left-Handed	Green Headband	Shot Clock Pressure
Klay	Slam Dunk	Glow-in-the-Dark Ball	Right-Handed	Green Headband	Travel Violations
Kyrie	Half-Court Hook	Glow-in-the-Dark Ball	Left-Handed	Blue Headband	Travel Violations
LaMelo	Three-Point Swish	Glow-in-the-Dark Ball	Right-Handed	Blue Headband	Double Dribble
Anthony	Ankle Breaker	Squeaky Shoes	Left-Handed	Red Headband	Travel Violations
Joel	No-Look Pass	Squeaky Shoes	Right-Handed	Red Headband	Double Dribble
Ja	Ankle Breaker	Bouncing Socks	Left-Handed	Blue Headband	Travel Violations
Bam	Half-Court Hook	Bouncing Socks	Right-Handed	Red Headband	Shot Clock Pressure
Trae	Three-Point Swish	Glow-in-the-Dark Ball	Left-Handed	Blue Headband	Shot Clock Pressure
Devin	No-Look Pass	Sticky Grip Gloves	Right-Handed	Blue Headband	Double Dribble
Luka	Three-Point Swish	Glow-in-the-Dark Ball	Left-Handed	Blue Headband	Travel Violations
Nikola	Three-Point Swish	Bouncing Socks	Left-Handed	Blue Headband	Travel Violations
Damian	No-Look Pass	Sticky Grip Gloves	Right-Handed	Red Headband	Travel Violations
Jayson	Half-Court Hook	Sticky Grip Gloves	Right-Handed	Blue Headband	Travel Violations
Russell	Ankle Breaker	Glow-in-the-Dark Ball	Left-Handed	Green Headband	Travel Violations
LeBron	Half-Court Hook	Squeaky Shoes	Right-Handed	Blue Headband	Travel Violations

CLUE 1 Place value

We found a scrap of paper from the playbook. Let us look at the place value of the digits in the team jersey numbers to decode the first clue!

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

T			T											T				
9000	70	700	9000	70	800	700	300	7000	50	700	2000	1000	50	9000	600	700	90	200
100	50	3000	1000	10	800	1000	60	2000	50	10	900	2000						

What is the value of the 9 in 529,740? → **T**

What is the value of the 2 in 73,208? → **R**

What is the value of the 7 in 57,363? → **D**

What is the value of the 9 in 410,598? → **A**

What is the value of the 3 in 63,291? → **U**

What is the value of the 5 in 870,156? → **O**

What is the value of the 1 in 31,268? → **N**

What is the value of the 6 in 84,761? → **G**

What is the value of the 9 in 678,954? → **K**

What is the value of the 7 in 16,720? → **E**

What is the value of the 6 in 939,630? → **W**

What is the value of the 3 in 46,385? → **F**

What is the value of the 2 in 872,743? → **S**

What is the value of the 1 in 72,192? → **B**

What is the value of the 1 in 66,412? → **C**

What is the value of the 8 in 256,810? → **I**

What is the value of the 7 in 914,078? → **H**

Scratch space:

CLUE 2

Multiplication facts (1-12)

The referee has boxes of shiny game balls arranged in equal rows. Let us multiply the rows to find the total balls and unlock the next lead.

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

T			T								T	T						
132	2	22	132	2	21	22	30	3	2	44	132	132	2	22	9	45	72	72

		T		T								T				
33	21	132	2	132	2	22	21	40	72	22	30	132	2	45	66	55

$11 \times 12 = \square \rightarrow \text{**T**}$

$7 \times 3 = \square \rightarrow \text{**I**}$

$3 \times 1 = \square \rightarrow \text{**S**}$

$10 \times 4 = \square \rightarrow \text{**R**}$

$8 \times 9 = \square \rightarrow \text{**L**}$

$6 \times 11 = \square \rightarrow \text{**N**}$

$11 \times 3 = \square \rightarrow \text{**W**}$

$3 \times 3 = \square \rightarrow \text{**B**}$

$4 \times 11 = \square \rightarrow \text{**O**}$

$10 \times 3 = \square \rightarrow \text{**F**}$

$1 \times 2 = \square \rightarrow \text{**H**}$

$9 \times 5 = \square \rightarrow \text{**A**}$

$2 \times 11 = \square \rightarrow \text{**E**}$

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

Scratch space:

CLUE 3 Rounding

The giant stadium scoreboard only shows rounded numbers for security. Round these ticket sales to the nearest ten to clear up the screen!

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

T										T	T				T		
170	4300	290	200	2300	200	430	290	2000	170	170	700	700	130	170	700	700	
					T												
1300	5000	50	500	200	170	290	430	200									

Round 174 to the nearest ten → **T**

Round 5,307 to the nearest thousand → **A**

Round 2,266 to the nearest thousand → **C**

Round 2,325 to the nearest hundred → **U**

Round 4,320 to the nearest hundred → **H**

Round 225 to the nearest hundred → **S**

Round 131 to the nearest ten → **K**

Round 1,332 to the nearest hundred → **M**

Round 49 to the nearest ten → **N**

Round 288 to the nearest ten → **E**

Round 456 to the nearest hundred → **Y**

Round 735 to the nearest hundred → **O**

Round 432 to the nearest ten → **P**

Scratch space:

CLUE 4
Fractions of a number

The assistant coach needs to hand out a fraction of the sports drinks to the team. Solve these fraction parts to find where the thief went.

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

A									A			A	
5	38	19	26	4	35	6	25	4	5	9	31	5	15

		A												
15	34	5	3	3	4	9	18	34	35	6	4	6	18	40

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

$1/6 \text{ of } 36 = \square \rightarrow \text{H}$

$4/10 \text{ of } 100 = \square \rightarrow \text{P}$

$3/5 \text{ of } 15 = \square \rightarrow \text{D}$

$3/6 \text{ of } 70 = \square \rightarrow \text{T}$

$4/8 \text{ of } 68 = \square \rightarrow \text{N}$

$8/10 \text{ of } 5 = \square \rightarrow \text{E}$

$2/5 \text{ of } 95 = \square \rightarrow \text{B}$

$1/3 \text{ of } 57 = \square \rightarrow \text{L}$

$1/5 \text{ of } 130 = \square \rightarrow \text{U}$

$1/4 \text{ of } 124 = \square \rightarrow \text{W}$

$1/3 \text{ of } 45 = \square \rightarrow \text{S}$

$2/4 \text{ of } 50 = \square \rightarrow \text{R}$

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

$3/10 \text{ of } 60 = \square \rightarrow \text{O}$

Scratch space:

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

We have a pile of scrimmage jerseys to divide equally among the starting players. Calculate the shares to uncover 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:

$132 \div 11 = \boxed{}$

$16 \div 4 = \boxed{}$

$55 \div 11 = \boxed{}$

$99 \div 9 = \boxed{}$

$30 \div 10 = \boxed{}$

$8 \div 8 = \boxed{}$

$50 \div 5 = \boxed{}$

$6 \div 3 = \boxed{}$

$99 \div 11 = \boxed{}$

$21 \div 3 = \boxed{}$

$96 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain tossed a clever no-look pass to distract the guard, then escaped using sticky grip gloves to climb the wall.
2. The villain threw a half-court hook shot to break the glass, then escaped using sticky grip gloves to climb the wall.
3. The villain used a swift ankle breaker move to run past the door, then bounced off into the dark with a glowing ball.
4. The villain sank a perfect three-point swish into the basket, then bounced off into the dark with a glowing ball.
5. The villain made a booming slam dunk to break the lock, then dashed away in squeaky shoes.
6. The villain threw a half-court hook shot to break the glass, then bounced off into the dark with a glowing ball.
7. The villain tossed a clever no-look pass to distract the guard, then dashed away in squeaky shoes.
8. The villain sank a perfect three-point swish into the basket, then dashed away in squeaky shoes.
9. The villain used a swift ankle breaker move to run past the door, then escaped using sticky grip gloves to climb the wall.
10. The villain tossed a clever no-look pass to distract the guard, then sprang over the fence using bouncing socks.
11. The villain sank a perfect three-point swish into the basket, then escaped using sticky grip gloves to climb the wall.
12. The villain used a swift ankle breaker move to run past the door, then dashed away in squeaky shoes.

Answer Key

The Sneaker Snatcher of Hoop City

Culprit: Kyrie

Half-Court Hook · Glow-in-the-Dark Ball · Left-Handed · Blue Headband · Travel Violations

Trail: Start 21 → Clue 1 17 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT WEAR BOUNCING SOCKS"

What is the value of the 9 in 529,740? = 9000 (T) · What is the value of the 2 in 73,208? = 200 (R) · What is the value of the 7 in 57,363? = 7000 (D) · What is the value of the 9 in 410,598? = 90 (A) · What is the value of the 3 in 63,291? = 3000 (U) · What is the value of the 5 in 870,156? = 50 (O) · What is the value of the 1 in 31,268? = 1000 (N) · What is the value of the 6 in 84,761? = 60 (G) · What is the value of the 9 in 678,954? = 900 (K) · What is the value of the 7 in 16,720? = 700 (E) · What is the value of the 6 in 939,630? = 600 (W) · What is the value of the 3 in 46,385? = 300 (F) · What is the value of the 2 in 872,743? = 2000 (S) · What is the value of the 1 in 72,192? = 100 (B) · What is the value of the 1 in 66,412? = 10 (C) · What is the value of the 8 in 256,810? = 800 (I) · What is the value of the 7 in 914,078? = 70 (H)

Clue 2 (Multiplication facts (1-12)): "THE THIEF SHOT THE BALL WITH THEIR LEFT HAND"

$11 \times 12 = 132$ (T) · $7 \times 3 = 21$ (I) · $3 \times 1 = 3$ (S) · $10 \times 4 = 40$ (R) · $8 \times 9 = 72$ (L) · $6 \times 11 = 66$ (N) · $11 \times 3 = 33$ (W) · $3 \times 3 = 9$ (B) · $4 \times 11 = 44$ (O) · $10 \times 3 = 30$ (F) · $1 \times 2 = 2$ (H) · $9 \times 5 = 45$ (A) · $2 \times 11 = 22$ (E) · $5 \times 11 = 55$ (D)

Clue 3 (Rounding): "THE SUSPECT TOOK TOO MANY STEPS"

Round 174 to the nearest ten = 170 (T) · Round 5,307 to the nearest thousand = 5000 (A) · Round 2,266 to the nearest thousand = 2000 (C) · Round 2,325 to the nearest hundred = 2300 (U) · Round 4,320 to the nearest hundred = 4300 (H) · Round 225 to the nearest hundred = 200 (S) · Round 131 to the nearest ten = 130 (K) · Round 1,332 to the nearest hundred = 1300 (M) · Round 49 to the nearest ten = 50 (N) · Round 288 to the nearest ten = 290 (E) · Round 456 to the nearest hundred = 500 (Y) · Round 735 to the nearest hundred = 700 (O) · Round 432 to the nearest ten = 430 (P)

Clue 4 (Fractions of a number): "A BLUE THREAD WAS SNAGGED ON THE HOOP"

$\frac{1}{2}$ of 10 = 5 (A) · $\frac{1}{6}$ of 36 = 6 (H) · $\frac{4}{10}$ of 100 = 40 (P) · $\frac{3}{5}$ of 15 = 9 (D) · $\frac{3}{6}$ of 70 = 35 (T) · $\frac{4}{8}$ of 68 = 34 (N) · $\frac{8}{10}$ of 5 = 4 (E) · $\frac{2}{5}$ of 95 = 38 (B) · $\frac{1}{3}$ of 57 = 19 (L) · $\frac{1}{5}$ of 130 = 26 (U) · $\frac{1}{4}$ of 124 = 31 (W) · $\frac{1}{3}$ of 45 = 15 (S) · $\frac{2}{4}$ of 50 = 25 (R) · $\frac{3}{10}$ of 10 = 3 (G) · $\frac{3}{10}$ of 60 = 18 (O)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Kyrie

$132 \div 11 = 12$ · $16 \div 4 = 4$ · $55 \div 11 = 5$ · $99 \div 9 = 11$ · $30 \div 10 = 3$ · $8 \div 8 = 1$ · $50 \div 5 = 10$ · $6 \div 3 = 2$ · $99 \div 11 = 9$ · $21 \div 3 = 7$ · $96 \div 12 = 8$