



The Mystery of the Missing Championship Trophy

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

Detective: _____ Date: _____

Someone sneaked into the arena locker rooms and swapped the championship trophy with a rubber basketball! The referee left behind coded clues on the court. Can you solve the puzzle and catch the hoop bandit?

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 hoop bandit 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	GEAR	DOMINANT HAND	HAIRSTYLE	DISTRACTION
Jaylen Brown	Ankle Breaker	High Tops	Left Handed	Buzz Cut	Squeaky Shoes
Kevin Durant	No Look Pass	High Tops	Left Handed	High Top Fade	Ice Water Spray
Trae Young	Monster Dunk	Padded Sleeves	Left Handed	High Top Fade	Ice Water Spray
DeAaron Fox	Halfcourt Swish	Neon Sweatband	Left Handed	Buzz Cut	Squeaky Shoes
Kawhi Leonard	Halfcourt Swish	High Tops	Right Handed	High Top Fade	Squeaky Shoes
Anthony Davis	Ankle Breaker	Neon Sweatband	Left Handed	High Top Fade	Squeaky Shoes
Nikola Jokic	Monster Dunk	Neon Sweatband	Right Handed	Buzz Cut	Loud Buzzer
Giannis Antetokounmpo	Halfcourt Swish	Padded Sleeves	Left Handed	High Top Fade	Squeaky Shoes
Paul George	Ankle Breaker	Golden Whistle	Right Handed	High Top Fade	Squeaky Shoes
LeBron James	Monster Dunk	High Tops	Left Handed	High Top Fade	Loud Buzzer
Jimmy Butler	No Look Pass	Padded Sleeves	Left Handed	Buzz Cut	Squeaky Shoes
Zion Williamson	Ankle Breaker	Golden Whistle	Left Handed	High Top Fade	Loud Buzzer
Luka Doncic	Monster Dunk	Neon Sweatband	Left Handed	Dreadlocks	Squeaky Shoes
Pascal Siakam	Sky Hook	Grip Chalk	Left Handed	High Top Fade	Ice Water Spray
Stephen Curry	Monster Dunk	Golden Whistle	Right Handed	High Top Fade	Squeaky Shoes
Ja Morant	Sky Hook	Grip Chalk	Left Handed	High Top Fade	Squeaky Shoes
Jayson Tatum	Halfcourt Swish	Grip Chalk	Left Handed	High Top Fade	Loud Buzzer
Devin Booker	Monster Dunk	Padded Sleeves	Left Handed	High Top Fade	Squeaky Shoes
Bam Adebayo	Sky Hook	Golden Whistle	Left Handed	High Top Fade	Squeaky Shoes
Damian Lillard	Sky Hook	High Tops	Right Handed	Buzz Cut	Squeaky Shoes
Donovan Mitchell	Ankle Breaker	Golden Whistle	Right Handed	Buzz Cut	Squeaky Shoes

Fractions of a number

You find a scout notebook showing fractions of team practice shots made during the first quarter.

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

A 2x10 grid of boxes. The top row contains the following sequence: an orange box with 'T' (22), an empty box (27), an empty box (9), an empty box (34), an empty box (14), an empty box (9), an empty box (26), an empty box (17), an empty box (6), an empty box (19), an empty box (26), an empty box (14), an empty box (7), an empty box (12), an orange box with 'T' (22), an empty box (7), an empty box (32), an empty box (9), and an empty box (34). The bottom row contains: an empty box (14), an empty box (32), an orange box with 'T' (22), an empty box (36), an empty box (34), an empty box (9), an empty box (20), an empty box (24), an empty box (12), an empty box (33), an empty box (13), an empty box (27), an empty box (26), an empty box (29), and an empty box (17).

$$\frac{1}{8} \text{ of } 176 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$\frac{1}{2} \text{ of } 26 = \boxed{} \rightarrow \boxed{\text{C}}$$

$\frac{3}{4}$ of 36 = $\rightarrow$ **H**

7/10 of 20 = → **N**

$$2/6 \text{ of } 99 = \boxed{} \rightarrow \boxed{\text{P}}$$

$\frac{1}{6}$ of 42 = $\rightarrow$ **D**

$$2/6 \text{ of } 18 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$\frac{1}{8} \text{ of } 160 = \boxed{} \rightarrow \boxed{\mathbf{G}}$$

4/6 of 39 = → **A**

$3/6$ of $24 = \boxed{} \rightarrow \boxed{\text{I}}$

$$\frac{1}{2} \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{R}}$$

$4/8$ of 38 = $\rightarrow$ **B**

$1/3$ of 96 = $\rightarrow$

5/10 of 34 = → **K**

4/10 of 90 = → **U**

$5/10$ of $68 = \boxed{} \rightarrow \boxed{\text{S}}$

$$5/10 \text{ of } 58 = \boxed{} \rightarrow \boxed{\text{L}}$$

$1/5$ of 45 = $\rightarrow$ **E**

Scratch space:

CLUE 2
Order of operations

The official scoreboard code requires solving a multi step expression with brackets to unlock video review.

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

W											W					
47	68	79	16	37	33	33	37	33	33	13	47	13	31	37	34	79

61	13	16	66	37	66	66	60	68	46	46	31	37	63	16	9	63	73	60	79

$7 \times 11 - 30 = \square \rightarrow \boxed{\text{W}}$

$6 + 2 \times 5 = \square \rightarrow \boxed{\text{N}}$

$8 \times 6 - 2 = \square \rightarrow \boxed{\text{B}}$

$28 + 8 \times 5 = \square \rightarrow \boxed{\text{I}}$

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

$4 \times 10 - 27 = \square \rightarrow \boxed{\text{A}}$

$21 + 5 \times 8 = \square \rightarrow \boxed{\text{H}}$

$10 \times 9 - 11 = \square \rightarrow \boxed{\text{T}}$

$41 + 5 \times 5 = \square \rightarrow \boxed{\text{D}}$

$31 + 3 \times 2 = \square \rightarrow \boxed{\text{E}}$

$33 + 5 \times 6 = \square \rightarrow \boxed{\text{O}}$

$23 + 4 \times 2 = \square \rightarrow \boxed{\text{L}}$

$9 \times 10 - 17 = \square \rightarrow \boxed{\text{U}}$

$22 + 2 \times 6 = \square \rightarrow \boxed{\text{F}}$

$9 \times 8 - 12 = \square \rightarrow \boxed{\text{R}}$

$12 + 3 \times 7 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

A rack of basketballs holds equal rows across multiple carts in the equipment room.

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

S								S					S							
20	35	88	40	30	120	72		20	80	44	40	20	21	18	44	2	99	21	72	
								S												
64	80	40		84	30	99		20	64	44	49	49	40	16	64	80	40	54		

$10 \times 2 = \square \rightarrow \text{S}$

$7 \times 7 = \square \rightarrow \text{P}$

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

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

$8 \times 2 = \square \rightarrow \text{D}$

$8 \times 8 = \square \rightarrow \text{T}$

$9 \times 11 = \square \rightarrow \text{N}$

$7 \times 5 = \square \rightarrow \text{Q}$

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

$10 \times 8 = \square \rightarrow \text{H}$

$6 \times 5 = \square \rightarrow \text{A}$

$12 \times 6 = \square \rightarrow \text{Y}$

$11 \times 8 = \square \rightarrow \text{U}$

$6 \times 3 = \square \rightarrow \text{L}$

$7 \times 12 = \square \rightarrow \text{F}$

$1 \times 2 = \square \rightarrow \text{W}$

$6 \times 9 = \square \rightarrow \text{M}$

$12 \times 10 = \square \rightarrow \text{K}$

Scratch space:

CLUE 4 Rounding

The arena stat tracker automatically rounds total player distances to the nearest hundred.

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

A									A				A					
3000	1100	9000	500	1100	130	90	20	170	3000	1300	430	700	3000	5000	5000	430	430	230
		A				A		A				A						
90	230	3000	900	430	230	3000	200	3000	4300	430	900	3000	5000					

Round 3,397 to the nearest thousand → **A**

Round 1,085 to the nearest hundred → **H**

Round 173 to the nearest ten → **F**

Round 90 to the nearest ten → **O**

Round 1,337 to the nearest hundred → **D**

Round 430 to the nearest ten → **E**

Round 486 to the nearest hundred → **G**

Round 9,172 to the nearest thousand → **I**

Round 23 to the nearest ten → **P**

Round 248 to the nearest hundred → **C**

Round 4,330 to the nearest hundred → **M**

Round 127 to the nearest ten → **T**

Round 4,991 to the nearest thousand → **S**

Round 855 to the nearest hundred → **R**

Round 655 to the nearest hundred → **W**

Round 231 to the nearest ten → **N**

Scratch space:

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

The referee divides the total training jerseys equally among all the ball kids on duty.

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:

$120 \div 12 = \boxed{}$

$60 \div 5 = \boxed{}$

$63 \div 7 = \boxed{}$

$121 \div 11 = \boxed{}$

$88 \div 11 = \boxed{}$

$22 \div 11 = \boxed{}$

$12 \div 2 = \boxed{}$

$56 \div 8 = \boxed{}$

$30 \div 10 = \boxed{}$

$35 \div 7 = \boxed{}$

$32 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain hit a halfcourt swish, then pulled up padded sleeves.
2. The villain faked a no look pass, then dusted on grip chalk.
3. The villain pulled off an ankle breaker, then pulled up padded sleeves.
4. The villain threw down a monster dunk, then dusted on grip chalk.
5. The villain hit a halfcourt swish, then dusted on grip chalk.
6. The villain pulled off an ankle breaker, then blew a golden whistle.
7. The villain sank a sky hook, then adjusted a neon sweatband.
8. The villain threw down a monster dunk, then blew a golden whistle.
9. The villain pulled off an ankle breaker, then adjusted a neon sweatband.
10. The villain threw down a monster dunk, then pulled up padded sleeves.
11. The villain hit a halfcourt swish, then adjusted a neon sweatband.
12. The villain sank a sky hook, then blew a golden whistle.

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Giannis Antetokounmpo

Halfcourt Swish · Padded Sleeves · Left Handed · High Top Fade · Squeaky Shoes

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SNEAKY BANDIT DOES NOT USE GRIP CHALK"

$\frac{1}{8}$ of 176 = 22 (T) · $\frac{1}{2}$ of 26 = 13 (C) · $\frac{3}{4}$ of 36 = 27 (H) · $\frac{7}{10}$ of 20 = 14 (N) · $\frac{2}{6}$ of 99 = 33 (P) · $\frac{1}{6}$ of 42 = 7 (D) · $\frac{2}{6}$ of 18 = 6 (Y) · $\frac{1}{8}$ of 160 = 20 (G) · $\frac{4}{6}$ of 39 = 26 (A) · $\frac{3}{6}$ of 24 = 12 (I) · $\frac{1}{2}$ of 48 = 24 (R) · $\frac{4}{8}$ of 38 = 19 (B) · $\frac{1}{3}$ of 96 = 32 (O) · $\frac{5}{10}$ of 34 = 17 (K) · $\frac{4}{10}$ of 90 = 36 (U) · $\frac{5}{10}$ of 68 = 34 (S) · $\frac{5}{10}$ of 58 = 29 (L) · $\frac{1}{5}$ of 45 = 9 (E)

Clue 2 (Order of operations): "WITNESSES SAW A LEFT HANDED DRIBBLE ON COURT"

$7 \times 11 - 30 = 47$ (W) · $6 + 2 \times 5 = 16$ (N) · $8 \times 6 - 2 = 46$ (B) · $28 + 8 \times 5 = 68$ (I) · $1 + 2 \times 4 = 9$ (C) · $4 \times 10 - 27 = 13$ (A) · $21 + 5 \times 8 = 61$ (H) · $10 \times 9 - 11 = 79$ (T) · $41 + 5 \times 5 = 66$ (D) · $31 + 3 \times 2 = 37$ (E) · $33 + 5 \times 6 = 63$ (O) · $23 + 4 \times 2 = 31$ (L) · $9 \times 10 - 17 = 73$ (U) · $22 + 2 \times 6 = 34$ (F) · $9 \times 8 - 12 = 60$ (R) · $12 + 3 \times 7 = 33$ (S)

Clue 3 (Multiplication facts (1-12)): "SQUEAKY SHOES BLOWN BY THE FAN STOPPED THEM"

$10 \times 2 = 20$ (S) · $7 \times 7 = 49$ (P) · $11 \times 4 = 44$ (O) · $3 \times 7 = 21$ (B) · $8 \times 2 = 16$ (D) · $8 \times 8 = 64$ (T) · $9 \times 11 = 99$ (N) · $7 \times 5 = 35$ (Q) · $4 \times 10 = 40$ (E) · $10 \times 8 = 80$ (H) · $6 \times 5 = 30$ (A) · $12 \times 6 = 72$ (Y) · $11 \times 8 = 88$ (U) · $6 \times 3 = 18$ (L) · $7 \times 12 = 84$ (F) · $1 \times 2 = 2$ (W) · $6 \times 9 = 54$ (M) · $12 \times 10 = 120$ (K)

Clue 4 (Rounding): "A HIGH TOP FADE WAS SEEN ON ARENA CAMERAS"

Round 3,397 to the nearest thousand = 3000 (A) · Round 1,085 to the nearest hundred = 1100 (H) · Round 173 to the nearest ten = 170 (F) · Round 90 to the nearest ten = 90 (O) · Round 1,337 to the nearest hundred = 1300 (D) · Round 430 to the nearest ten = 430 (E) · Round 486 to the nearest hundred = 500 (G) · Round 9,172 to the nearest thousand = 9000 (I) · Round 23 to the nearest ten = 20 (P) · Round 248 to the nearest hundred = 200 (C) · Round 4,330 to the nearest hundred = 4300 (M) · Round 127 to the nearest ten = 130 (T) · Round 4,991 to the nearest thousand = 5000 (S) · Round 855 to the nearest hundred = 900 (R) · Round 655 to the nearest hundred = 700 (W) · Round 231 to the nearest ten = 230 (N)

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

$120 \div 12 = 10$ · $60 \div 5 = 12$ · $63 \div 7 = 9$ · $121 \div 11 = 11$ · $88 \div 11 = 8$ · $22 \div 11 = 2$ · $12 \div 2 = 6$ · $56 \div 8 = 7$ · $30 \div 10 = 3$ · $35 \div 7 = 5$ · $32 \div 8 = 4$