The Mystery of the Missing Championship Trophy

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

Detective: _____ **Date:** _____

The championship trophy vanished right before the big tip off Detective check the clues around the basketball court to find out who swiped the trophy

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 trophy thief is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

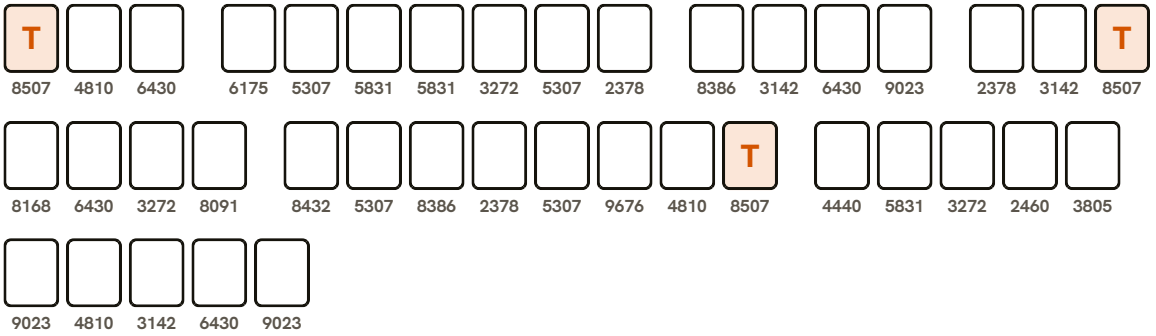
NAME	SIGNATURE MOVE	FAVORITE SHOE COLOR	SHOOTING HAND	HEADWEAR	LOCKER DISTRACTION
Zion Williamson	Slam Dunk	Electric Blue	Right Handed	Bare Head	Loud Whistle
Michael Jordan	Slam Dunk	Gold Sparkle	Left Handed	Sweat Cap	Loud Whistle
Nikola Jokic	Crossover	Gold Sparkle	Right Handed	Bare Head	Flash Bulbs
Chris Paul	Sky Hook	Gold Sparkle	Right Handed	Sweat Cap	Loud Whistle
Jimmy Butler	Slam Dunk	Neon Orange	Left Handed	Bare Head	Loud Whistle
Giannis Antetemts	Crossover	Lime Green	Left Handed	Sweat Cap	Loud Whistle
Trae Young	Slam Dunk	Gold Sparkle	Right Handed	Sweat Cap	Squeaky Floor
Kevin Durant	Slam Dunk	Neon Orange	Right Handed	Bare Head	Squeaky Floor
Shaquille ONeal	Slam Dunk	Neon Orange	Left Handed	Sweat Cap	Flash Bulbs
LeBron James	Crossover	Gold Sparkle	Right Handed	Sweat Cap	Flash Bulbs
Kobe Bryant	Euro Step	Gold Sparkle	Left Handed	Sweat Cap	Loud Whistle
Dirk Nowitzki	Euro Step	Midnight Black	Left Handed	Sweat Cap	Loud Whistle
Ja Morant	Sky Hook	Midnight Black	Left Handed	Bare Head	Flash Bulbs
Anthony Davis	Fadeaway	Gold Sparkle	Right Handed	Sweat Cap	Loud Whistle
James Harden	Euro Step	Lime Green	Left Handed	Bare Head	Loud Whistle
Kyrie Irving	Slam Dunk	Lime Green	Right Handed	Bare Head	Squeaky Floor
Devin Booker	Euro Step	Electric Blue	Left Handed	Headband	Squeaky Floor
Jayson Tatum	Crossover	Lime Green	Right Handed	Headband	Loud Whistle
Steph Curry	Fadeaway	Gold Sparkle	Left Handed	Bare Head	Flash Bulbs
Kawhi Leonard	Sky Hook	Gold Sparkle	Left Handed	Sweat Cap	Loud Whistle
Paul George	Euro Step	Gold Sparkle	Right Handed	Headband	Flash Bulbs

CLUE 1

Addition

Coach Leo tallied up all the basketballs gathered from the court to uncover the first clue

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



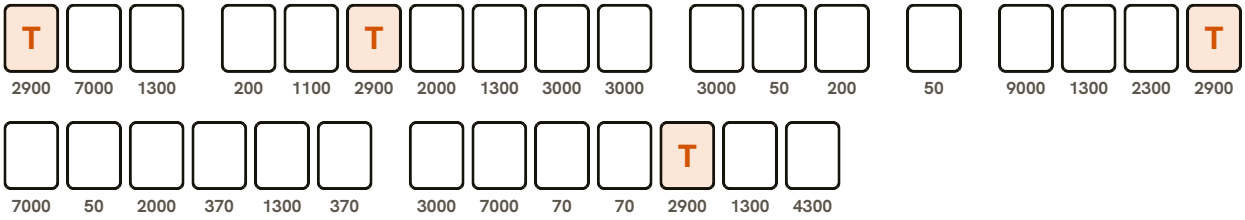
4537 + 3970 = ☐ → T	3016 + 3159 = ☐ → V	4468 + 3918 = ☐ → D
3369 + 5063 = ☐ → M	2913 + 1897 = ☐ → H	2836 + 3594 = ☐ → E
1335 + 1807 = ☐ → O	1584 + 794 = ☐ → N	1195 + 2610 = ☐ → K
3398 + 1909 = ☐ → I	3652 + 5371 = ☐ → S	1524 + 2916 = ☐ → B
1654 + 1618 = ☐ → A	1467 + 993 = ☐ → C	6321 + 3355 = ☐ → G
3791 + 2040 = ☐ → L	5597 + 2571 = ☐ → W	4058 + 4033 = ☐ → R

Scratch space:

CLUE 2 Rounding

The arena scoreboard display rounded the fan turnout number to give the next hint

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



Round 2,946 to the nearest hundred ☐ → **T**

Round 1,077 to the nearest hundred ☐ → **I**

Round 9,002 to the nearest thousand ☐ → **L**

Round 1,545 to the nearest thousand ☐ → **N**

Round 4,289 to the nearest hundred ☐ → **R**

Round 72 to the nearest ten ☐ → **O**

Round 2,295 to the nearest hundred ☐ → **F**

Round 1,287 to the nearest hundred ☐ → **E**

Round 366 to the nearest ten ☐ → **D**

Round 7,476 to the nearest thousand ☐ → **H**

Round 53 to the nearest ten ☐ → **A**

Round 183 to the nearest hundred ☐ → **W**

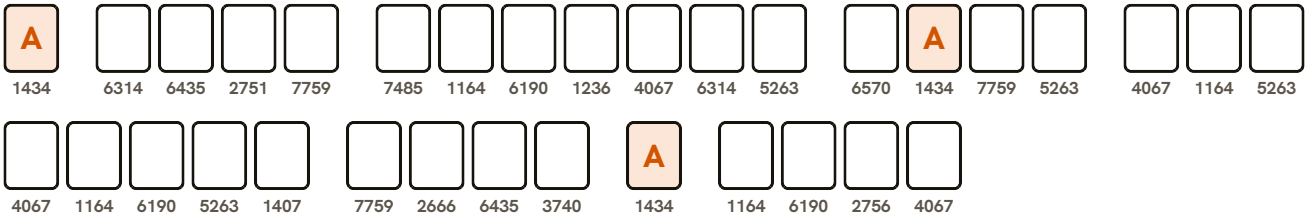
Round 3,180 to the nearest thousand ☐ → **S**

Scratch space:

CLUE 3 Subtraction

> The court manager subtracted the damaged folding chairs from the total count to reveal a secret code

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



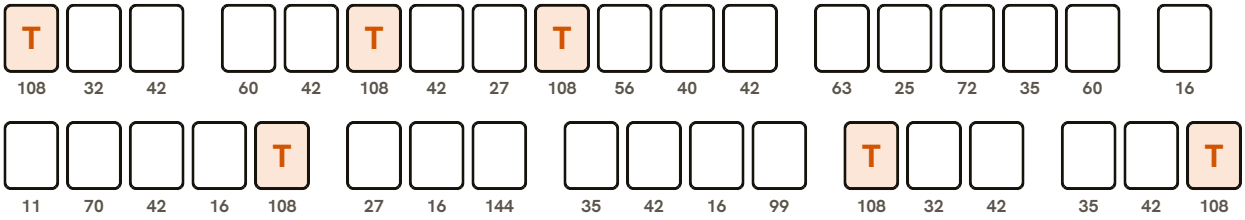
2130 - 696 = ☐ → A	11792 - 4307 = ☐ → W	5756 - 3090 = ☐ → R
8942 - 1183 = ☐ → D	4495 - 755 = ☐ → P	1515 - 108 = ☐ → F
6850 - 660 = ☐ → I	8968 - 2398 = ☐ → M	5129 - 1062 = ☐ → T
5802 - 3046 = ☐ → N	9384 - 3070 = ☐ → L	4175 - 3011 = ☐ → H
11382 - 4947 = ☐ → O	2777 - 1541 = ☐ → S	9950 - 4687 = ☐ → E
4831 - 2080 = ☐ → U		

Scratch space:

CLUE 4 Multiplication facts (1-12)

The referee counted rows of bleacher seats multiplied by six to decode another message

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



12 × 9 = ☐ → T	5 × 12 = ☐ → D	9 × 8 = ☐ → U
9 × 11 = ☐ → R	8 × 5 = ☐ → V	12 × 12 = ☐ → P
6 × 7 = ☐ → E	5 × 5 = ☐ → O	10 × 7 = ☐ → W
1 × 11 = ☐ → S	4 × 8 = ☐ → H	2 × 8 = ☐ → A
5 × 7 = ☐ → N	7 × 9 = ☐ → F	3 × 9 = ☐ → C

8 × 7 = ☐ → I

Scratch space:

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

> The team captain split the water bottles evenly into four racks to find 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:

16 ÷ 4 = ☐ | 2 ÷ 1 = ☐ | 144 ÷ 12 = ☐ | 35 ÷ 5 = ☐ | 27 ÷ 9 = ☐

6 ÷ 1 = ☐ | 88 ÷ 11 = ☐ | 20 ÷ 4 = ☐ | 80 ÷ 8 = ☐ | 3 ÷ 3 = ☐

121 ÷ 11 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain sank a smooth fadeaway, then slipped on midnight black kicks.
2. The villain dribbled with a euro step, then tied gold sparkle shoes.
3. The villain hit a swift sky hook, then slipped on midnight black kicks.
4. The villain threw down a slam dunk, then tied gold sparkle shoes.
5. The villain busted out a crossover, then laced up neon orange sneakers.
6. The villain threw down a slam dunk, then strapped on lime green shoes.
7. The villain sank a smooth fadeaway, then tied gold sparkle shoes.
8. The villain busted out a crossover, then laced up electric blue sneakers.
9. The villain busted out a crossover, then strapped on lime green shoes.
10. The villain threw down a slam dunk, then slipped on midnight black kicks.
11. The villain sank a smooth fadeaway, then laced up electric blue sneakers.
12. The villain hit a swift sky hook, then tied gold sparkle shoes.

TEACHER / PARENT

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Giannis Antetemts

Crossover · Lime Green · Left Handed · Sweat Cap · Loud Whistle

Trail: Start 21 → Clue 1 19 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT WEAR MIDNIGHT BLACK SHOES"

4537 + 3970 = 8507 (T) · 3016 + 3159 = 6175 (V) · 4468 + 3918 = 8386 (D) · 3369 + 5063 = 8432 (M) · 2913 + 1897 = 4810 (H) · 2836 + 3594 = 6430 (E) · 1335 + 1807 = 3142 (O) · 1584 + 794 = 2378 (N) · 1195 + 2610 = 3805 (K) · 3398 + 1909 = 5307 (I) · 3652 + 5371 = 9023 (S) · 1524 + 2916 = 4440 (B) · 1654 + 1618 = 3272 (A) · 1467 + 993 = 2460 (C) · 6321 + 3355 = 9676 (G) · 3791 + 2040 = 5831 (L) · 5597 + 2571 = 8168 (W) · 4058 + 4033 = 8091 (R)

Clue 2 (Rounding): "THE WITNESS SAW A LEFT HANDED SHOOTER"

Round 2,946 to the nearest hundred = 2900 (T) · Round 1,077 to the nearest hundred = 1100 (I) · Round 9,002 to the nearest thousand = 9000 (L) · Round 1,545 to the nearest thousand = 2000 (N) · Round 4,289 to the nearest hundred = 4300 (R) · Round 72 to the nearest ten = 70 (O) · Round 2,295 to the nearest hundred = 2300 (F) · Round 1,287 to the nearest hundred = 1300 (E) · Round 366 to the nearest ten = 370 (D) · Round 7,476 to the nearest thousand = 7000 (H) · Round 53 to the nearest ten = 50 (A) · Round 183 to the nearest hundred = 200 (W) · Round 3,180 to the nearest thousand = 3000 (S)

Clue 3 (Subtraction): "A LOUD WHISTLE MADE THE THIEF DROP A HINT"

2130 - 696 = 1434 (A) · 11792 - 4307 = 7485 (W) · 5756 - 3090 = 2666 (R) · 8942 - 1183 = 7759 (D) · 4495 - 755 = 3740 (P) · 1515 - 108 = 1407 (F) · 6850 - 660 = 6190 (I) · 8968 - 2398 = 6570 (M) · 5129 - 1062 = 4067 (T) · 5802 - 3046 = 2756 (N) · 9384 - 3070 = 6314 (L) · 4175 - 3011 = 1164 (H) · 11382 - 4947 = 6435 (O) · 2777 - 1541 = 1236 (S) · 9950 - 4687 = 5263 (E) · 4831 - 2080 = 2751 (U)

Clue 4 (Multiplication facts (1-12)): "THE DETECTIVE FOUND A SWEAT CAP NEAR THE NET"

12 × 9 = 108 (T) · 5 × 12 = 60 (D) · 9 × 8 = 72 (U) · 9 × 11 = 99 (R) · 8 × 5 = 40 (V) · 12 × 12 = 144 (P) · 6 × 7 = 42 (E) · 5 × 5 = 25 (O) · 10 × 7 = 70 (W) · 1 × 11 = 11 (S) · 4 × 8 = 32 (H) · 2 × 8 = 16 (A) · 8 × 7 = 56 (I) · 5 × 7 = 35 (N) · 7 × 9 = 63 (F) · 3 × 9 = 27 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Giannis Antetemts

16 ÷ 4 = 4 · 2 ÷ 1 = 2 · 144 ÷ 12 = 12 · 35 ÷ 5 = 7 · 27 ÷ 9 = 3 · 6 ÷ 1 = 6 · 88 ÷ 11 = 8 · 20 ÷ 4 = 5 · 80 ÷ 8 = 10 · 3 ÷ 3 = 1 · 121 ÷ 11 = 11