The Great Championship Trophy Mystery

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

Detective: _____ **Date:** _____

Just before the championship tip-off, the shiny Gold Cup trophy disappeared from center court! The culprit left clues all over the gymnasium.

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.

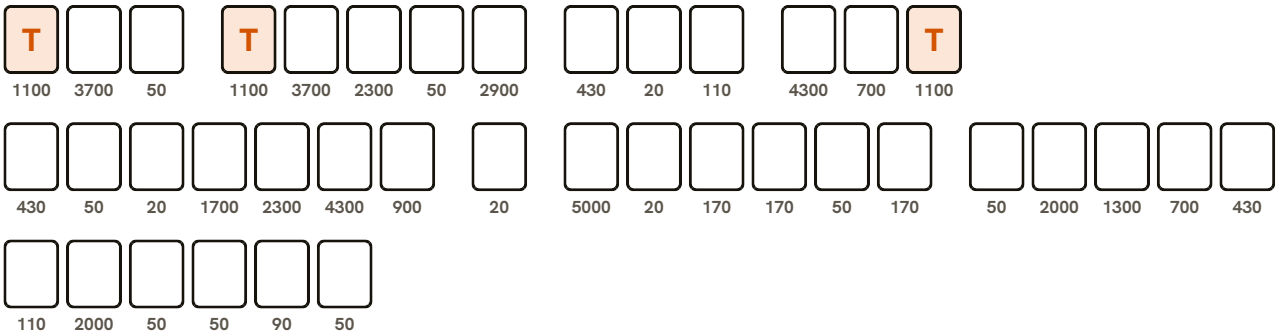
NAME	SIGNATURE MOVE	FAVORITE GEAR	DOMINANT HAND	HEADBAND COLOR	TACTICAL MISTAKE
LeBron James	No Look Pass	Padded Elbow Sleeve	Left Handed	Crimson Red Headband	Squeaky Sneaker Soles
Dwyane Wade	Euro Step	Weighted Jump Rope	Right Handed	Bright Gold Headband	Tangled Netting
Damian Lillard	Sky Hook	High Top Sneakers	Right Handed	Crimson Red Headband	Tangled Netting
Devin Booker	No Look Pass	Custom Ankle Braces	Left Handed	Crimson Red Headband	Squeaky Sneaker Soles
Tim Duncan	No Look Pass	Custom Ankle Braces	Right Handed	Bright Gold Headband	Tangled Netting
Michael Jordan	Euro Step	Weighted Jump Rope	Right Handed	Midnight Black Headband	Dropping The Whistle
Giannis Antetokounmpo	Crossover Dribble	Neon Wristband	Right Handed	Midnight Black Headband	Tangled Netting
Kawhi Leonard	Sky Hook	High Top Sneakers	Left Handed	Midnight Black Headband	Dropping The Whistle
Anthony Davis	Crossover Dribble	High Top Sneakers	Left Handed	Bright Gold Headband	Tangled Netting
Larry Bird	Euro Step	Neon Wristband	Right Handed	Crimson Red Headband	Squeaky Sneaker Soles
Luka Doncic	Euro Step	High Top Sneakers	Left Handed	Midnight Black Headband	Tangled Netting
Charles Barkley	Euro Step	High Top Sneakers	Right Handed	Bright Gold Headband	Tangled Netting
Magic Johnson	Fadeaway Jumper	Neon Wristband	Left Handed	Midnight Black Headband	Squeaky Sneaker Soles
Kobe Bryant	Sky Hook	Padded Elbow Sleeve	Right Handed	Bright Gold Headband	Tangled Netting
Dirk Nowitzki	No Look Pass	Padded Elbow Sleeve	Left Handed	Bright Gold Headband	Tangled Netting
Shaquille ONeal	Fadeaway Jumper	Neon Wristband	Left Handed	Midnight Black Headband	Dropping The Whistle
Allen Iverson	Euro Step	Weighted Jump Rope	Right Handed	Bright Gold Headband	Squeaky Sneaker Soles
Jayson Tatum	Sky Hook	Custom Ankle Braces	Right Handed	Bright Gold Headband	Tangled Netting
Ja Morant	Fadeaway Jumper	High Top Sneakers	Right Handed	Bright Gold Headband	Dropping The Whistle
Kevin Durant	Crossover Dribble	Custom Ankle Braces	Left Handed	Bright Gold Headband	Tangled Netting
Nikola Jokic	Sky Hook	Neon Wristband	Left Handed	Midnight Black Headband	Tangled Netting

make your own at mathcrackers.com

CLUE 1 Rounding

> The digital scoreboard radar only displays rounded crowd estimates, but counting the arena seats reveals a clue.

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



Round 1,114 to the nearest hundred ☐ → T

Round 4,305 to the nearest hundred ☐ → N

Round 2,376 to the nearest thousand ☐ → L

Round 91 to the nearest ten ☐ → V

Round 107 to the nearest ten ☐ → S

Round 1,334 to the nearest hundred ☐ → B

Round 427 to the nearest ten ☐ → W

Round 2,319 to the nearest hundred ☐ → I

Round 894 to the nearest hundred ☐ → G

Round 5,260 to the nearest thousand ☐ → P

Round 3,744 to the nearest hundred ☐ → H

Round 166 to the nearest ten ☐ → D

Round 16 to the nearest ten ☐ → A

Round 717 to the nearest hundred ☐ → O

Round 53 to the nearest ten ☐ → E

Round 1,691 to the nearest hundred ☐ → R

Round 2,897 to the nearest hundred ☐ → F

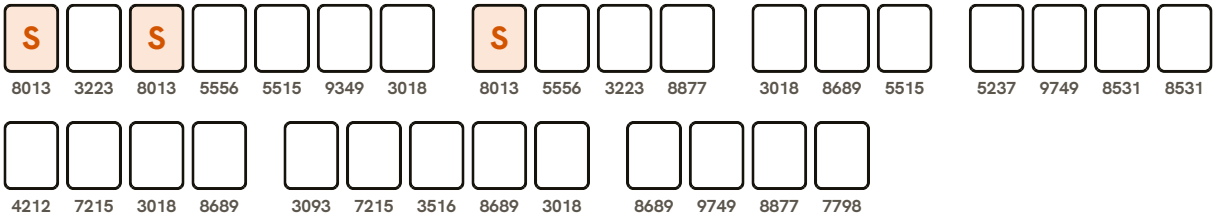
Scratch space:

CLUE 2

Addition

Coach Benny totals up the leftover basketballs in the equipment storage room to track down the culprit.

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



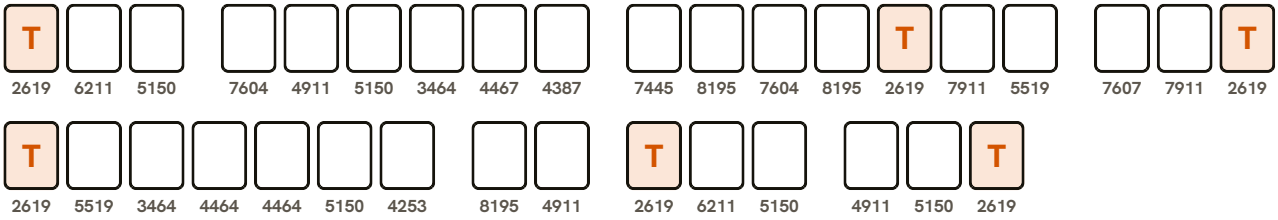
4594 + 3419 = ☐ → S	6315 + 3034 = ☐ → C	2918 + 2319 = ☐ → B
2164 + 3392 = ☐ → P	1361 + 1732 = ☐ → R	2855 + 4360 = ☐ → I
4228 + 4303 = ☐ → L	1014 + 2004 = ☐ → T	5987 + 2890 = ☐ → N
2557 + 1655 = ☐ → W	4839 + 3850 = ☐ → H	1251 + 2265 = ☐ → G
6333 + 3416 = ☐ → A	3166 + 4632 = ☐ → D	2566 + 2949 = ☐ → E
1474 + 1749 = ☐ → U		

Scratch space:

CLUE 3 Subtraction

> The statistician compares the baseline team stats from last quarter to find missing locker room passes.

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



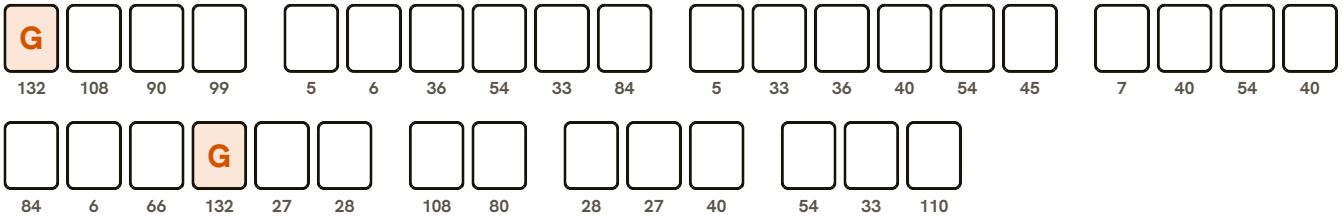
7367 - 4748 = ☐ → T	3635 - 171 = ☐ → A	7115 - 904 = ☐ → H
6356 - 1892 = ☐ → P	5063 - 810 = ☐ → D	10251 - 2806 = ☐ → V
8555 - 4168 = ☐ → Y	9164 - 969 = ☐ → I	9042 - 1435 = ☐ → G
8562 - 3412 = ☐ → E	10804 - 3200 = ☐ → S	7980 - 3069 = ☐ → N
6774 - 1255 = ☐ → R	6683 - 2216 = ☐ → K	8443 - 532 = ☐ → O

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The court manager inspects equal rows of arena bleachers to gather evidence.

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



11 × 12 = ☐ → **G**

9 × 4 = ☐ → **B**

9 × 10 = ☐ → **L**

5 × 8 = ☐ → **E**

9 × 12 = ☐ → **O**

7 × 4 = ☐ → **T**

11 × 9 = ☐ → **D**

6 × 9 = ☐ → **R**

6 × 1 = ☐ → **A**

5 × 9 = ☐ → **S**

9 × 3 = ☐ → **H**

12 × 7 = ☐ → **C**

10 × 11 = ☐ → **M**

6 × 11 = ☐ → **U**

7 × 1 = ☐ → **W**

11 × 3 = ☐ → **I**

10 × 8 = ☐ → **N**

5 × 1 = ☐ → **F**

Scratch space:

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

> The referee splits the training cones evenly into practice drills to uncover the final witness report.

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:

8 ÷ 1 = ☐	66 ÷ 11 = ☐	9 ÷ 3 = ☐	9 ÷ 9 = ☐	25 ÷ 5 = ☐
77 ÷ 7 = ☐	20 ÷ 10 = ☐	63 ÷ 7 = ☐	32 ÷ 8 = ☐	56 ÷ 8 = ☐
36 ÷ 3 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain drained a fadeaway jumper over defenders, then laced up high top sneakers.
2. The villain bamboozled scouts with a crossover dribble, then snagged a padded elbow sleeve.
3. The villain executed a slick euro step past guards, then packed a weighted jump rope.
4. The villain faked out defenders with a no look pass, then packed a weighted jump rope.
5. The villain bamboozled scouts with a crossover dribble, then adjusted a neon wristband.
6. The villain executed a slick euro step past guards, then laced up high top sneakers.
7. The villain executed a slick euro step past guards, then adjusted a neon wristband.
8. The villain faked out defenders with a no look pass, then tightened custom ankle braces.
9. The villain drilled a sky hook from the baseline, then adjusted a neon wristband.
10. The villain drilled a sky hook from the baseline, then tightened custom ankle braces.
11. The villain drained a fadeaway jumper over defenders, then snagged a padded elbow sleeve.
12. The villain executed a slick euro step past guards, then tightened custom ankle braces.

TEACHER / PARENT

Answer Key

The Great Championship Trophy Mystery

Culprit: Jayson Tatum

Sky Hook · Custom Ankle Braces · Right Handed · Bright Gold Headband · Tangled Netting

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF WAS NOT WEARING A PADDED ELBOW SLEEVE"

Round 1,114 to the nearest hundred = 1100 (T) · Round 4,305 to the nearest hundred = 4300 (N) · Round 2,376 to the nearest thousand = 2000 (L) · Round 91 to the nearest ten = 90 (V) · Round 107 to the nearest ten = 110 (S) · Round 1,334 to the nearest hundred = 1300 (B) · Round 427 to the nearest ten = 430 (W) · Round 2,319 to the nearest hundred = 2300 (I) · Round 894 to the nearest hundred = 900 (G) · Round 5,260 to the nearest thousand = 5000 (P) · Round 3,744 to the nearest hundred = 3700 (H) · Round 166 to the nearest ten = 170 (D) · Round 16 to the nearest ten = 20 (A) · Round 717 to the nearest hundred = 700 (O) · Round 53 to the nearest ten = 50 (E) · Round 1,691 to the nearest hundred = 1700 (R) · Round 2,897 to the nearest hundred = 2900 (F)

Clue 2 (Addition): "SUSPECT SPUN THE BALL WITH RIGHT HAND"

4594 + 3419 = 8013 (S) · 6315 + 3034 = 9349 (C) · 2918 + 2319 = 5237 (B) · 2164 + 3392 = 5556 (P) · 1361 + 1732 = 3093 (R) · 2855 + 4360 = 7215 (I) · 4228 + 4303 = 8531 (L) · 1014 + 2004 = 3018 (T) · 5987 + 2890 = 8877 (N) · 2557 + 1655 = 4212 (W) · 4839 + 3850 = 8689 (H) · 1251 + 2265 = 3516 (G) · 6333 + 3416 = 9749 (A) · 3166 + 4632 = 7798 (D) · 2566 + 2949 = 5515 (E) · 1474 + 1749 = 3223 (U)

Clue 3 (Subtraction): "THE SNEAKY VISITOR GOT TRAPPED IN THE NET"

7367 - 4748 = 2619 (T) · 3635 - 171 = 3464 (A) · 7115 - 904 = 6211 (H) · 6356 - 1892 = 4464 (P) · 5063 - 810 = 4253 (D) · 10251 - 2806 = 7445 (V) · 8555 - 4168 = 4387 (Y) · 9164 - 969 = 8195 (I) · 9042 - 1435 = 7607 (G) · 8562 - 3412 = 5150 (E) · 10804 - 3200 = 7604 (S) · 7980 - 3069 = 4911 (N) · 6774 - 1255 = 5519 (R) · 6683 - 2216 = 4467 (K) · 8443 - 532 = 7911 (O)

Clue 4 (Multiplication facts (1-12)): "GOLD FABRIC FIBERS WERE CAUGHT ON THE RIM"

11 × 12 = 132 (G) · 9 × 4 = 36 (B) · 9 × 10 = 90 (L) · 5 × 8 = 40 (E) · 9 × 12 = 108 (O) · 7 × 4 = 28 (T) · 11 × 9 = 99 (D) · 6 × 9 = 54 (R) · 6 × 1 = 6 (A) · 5 × 9 = 45 (S) · 9 × 3 = 27 (H) · 12 × 7 = 84 (C) · 10 × 11 = 110 (M) · 6 × 11 = 66 (U) · 7 × 1 = 7 (W) · 11 × 3 = 33 (I) · 10 × 8 = 80 (N) · 5 × 1 = 5 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Jayson Tatum

8 ÷ 1 = 8 · 66 ÷ 11 = 6 · 9 ÷ 3 = 3 · 9 ÷ 9 = 1 · 25 ÷ 5 = 5 · 77 ÷ 7 = 11 · 20 ÷ 10 = 2 · 63 ÷ 7 = 9 · 32 ÷ 8 = 4 · 56 ÷ 8 = 7 · 36 ÷ 3 = 12