The Great Championship Trophy Mystery

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

Detective: _____ **Date:** _____

Right before the championship tip-off at Metro Arena, the shiny golden championship trophy vanished from center court! The head tournament director needs your detective skills to analyze clues around the gym and catch the trophy snatcher before the final buzzer.

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 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	COURT GADGET	SHOOTING HAND	HEADBAND COLOR	DISTRACTING SOUND
Steph Curry	Sky Hook	Spring Shoes	Right Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Luka Doncic	Slam Dunk	Sticky Gloves	Right Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Kyrie Irving	No Look Pass	Glow Basketball	Right Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Kelsey Plum	Half Court Shot	Sticky Gloves	Right Handed Shooter	Bright Purple Headband	Buzzing Game Clock
Giannis Antetokounmpo	Half Court Shot	Sticky Gloves	Right Handed Shooter	Electric Blue Headband	Rattling Metal Rim
Anthony Davis	No Look Pass	Laser Goggles	Left Handed Shooter	Bright Purple Headband	Buzzing Game Clock
Diana Taurasi	Slam Dunk	Laser Goggles	Left Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Ja Morant	No Look Pass	Sticky Gloves	Right Handed Shooter	Bright Purple Headband	Buzzing Game Clock
Sue Bird	Sky Hook	Sticky Gloves	Left Handed Shooter	Electric Blue Headband	Rattling Metal Rim
Devin Booker	No Look Pass	Sticky Gloves	Left Handed Shooter	Neon Orange Headband	Buzzing Game Clock
A'ja Wilson	No Look Pass	Turbo Socks	Left Handed Shooter	Electric Blue Headband	Rattling Metal Rim
LeBron James	Slam Dunk	Sticky Gloves	Left Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Joel Embiid	Spin Move	Glow Basketball	Right Handed Shooter	Neon Orange Headband	Rattling Metal Rim
Nikola Jokic	Spin Move	Sticky Gloves	Left Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Maya Moore	Spin Move	Spring Shoes	Right Handed Shooter	Bright Purple Headband	Squeaky Rubber Shoes
Caitlin Clark	Half Court Shot	Sticky Gloves	Left Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Sabrina Ionescu	Sky Hook	Laser Goggles	Left Handed Shooter	Electric Blue Headband	Rattling Metal Rim
Damian Lillard	Slam Dunk	Turbo Socks	Left Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Shaquille O'Neal	No Look Pass	Laser Goggles	Right Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Jayson Tatum	Spin Move	Glow Basketball	Right Handed Shooter	Bright Purple Headband	Rattling Metal Rim
Kevin Durant	Slam Dunk	Sticky Gloves	Right Handed Shooter	Electric Blue Headband	Rattling Metal Rim

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CLUE 1

Addition

Coach Maya counted the total practice basketballs collected from both court bins to unlock the first clue file.

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



1163 + 965 = ☐ → T

3540 + 4228 = ☐ → S

3055 + 3836 = ☐ → K

3260 + 6421 = ☐ → A

3325 + 3425 = ☐ → R

3311 + 2375 = ☐ → Y

4792 + 3780 = ☐ → H

3227 + 3550 = ☐ → E

1228 + 1338 = ☐ → G

3755 + 4143 = ☐ → U

2035 + 4222 = ☐ → P

1359 + 1723 = ☐ → O

4327 + 2218 = ☐ → N

1669 + 1083 = ☐ → I

1828 + 3553 = ☐ → W

2683 + 1537 = ☐ → C

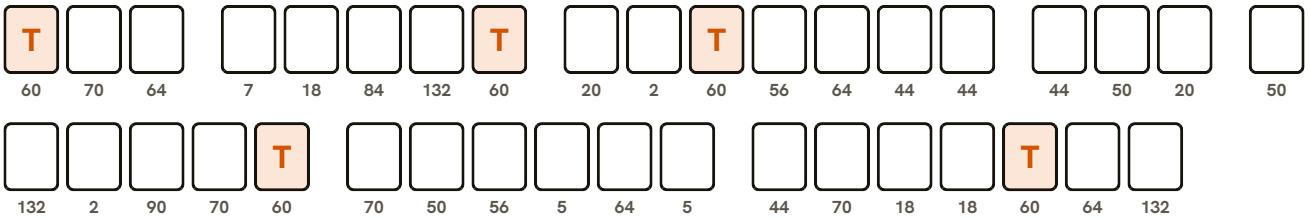
6383 + 2764 = ☐ → D

Scratch space:

CLUE 2 Multiplication facts (1-12)

> The equipment manager organized rows of fresh team towels on the bench racks to decrypt the second clue file.

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



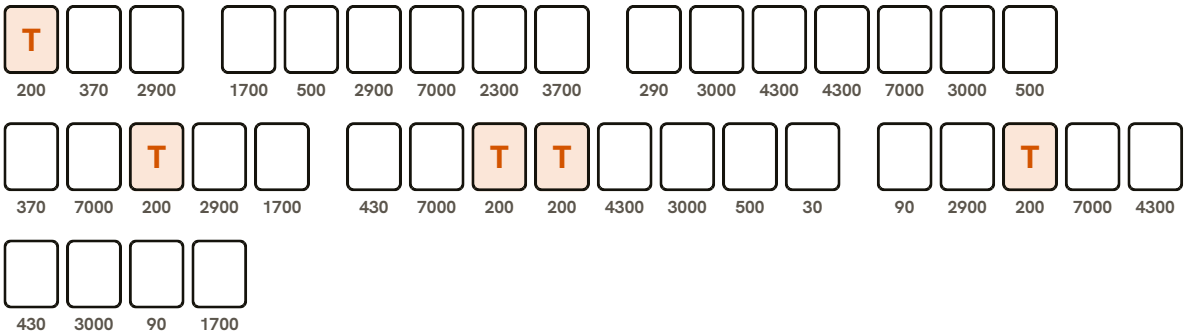
10 × 6 = ☐ → T	7 × 8 = ☐ → N	7 × 1 = ☐ → C
9 × 10 = ☐ → G	4 × 11 = ☐ → S	12 × 7 = ☐ → U
3 × 6 = ☐ → O	5 × 10 = ☐ → A	8 × 8 = ☐ → E	5 × 1 = ☐ → D
11 × 12 = ☐ → R	10 × 7 = ☐ → H	1 × 2 = ☐ → I
2 × 10 = ☐ → W		

Scratch space:

CLUE 3 Rounding

> The stadium scoreboard rounded the arena decibel reading to the nearest hundred to process the third clue file.

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



Round 225 to the nearest hundred ☐ → **T**

Round 93 to the nearest ten ☐ → **M**

Round 33 to the nearest ten ☐ → **G**

Round 1,702 to the nearest hundred ☐ → **S**

Round 290 to the nearest ten ☐ → **V**

Round 429 to the nearest ten ☐ → **R**

Round 3,658 to the nearest hundred ☐ → **Y**

Round 2,842 to the nearest thousand ☐ → **I**

Round 2,293 to the nearest hundred ☐ → **K**

Round 4,341 to the nearest hundred ☐ → **L**

Round 2,907 to the nearest hundred ☐ → **E**

Round 459 to the nearest hundred ☐ → **N**

Round 7,306 to the nearest thousand ☐ → **A**

Round 369 to the nearest ten ☐ → **H**

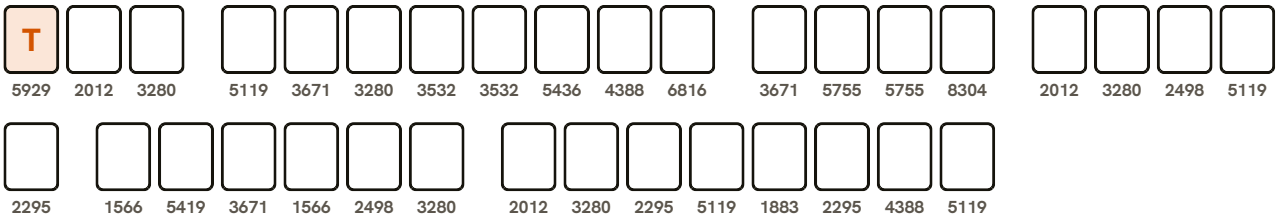
Scratch space:

CLUE 4

Subtraction

> Assistant Coach Dan calculated how many souvenir jerseys were left after halftime sales to unlock the fourth clue file.

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



8029 - 2100 = ☐ → T

8549 - 3113 = ☐ → I

6267 - 3769 = ☐ → L

9031 - 3912 = ☐ → D

7245 - 1490 = ☐ → O

4299 - 2004 = ☐ → A

11755 - 3451 = ☐ → M

3478 - 1466 = ☐ → H

4015 - 735 = ☐ → E

8192 - 4521 = ☐ → R

3544 - 1661 = ☐ → B

7826 - 2407 = ☐ → U

6651 - 3119 = ☐ → S

3015 - 1449 = ☐ → P

9512 - 2696 = ☐ → G

8158 - 3770 = ☐ → N

Scratch space:

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

> The head referee divided the training cones equally among five drill stations to reveal the final clue file.

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:

66 ÷ 11 = ☐ | 10 ÷ 10 = ☐ | 18 ÷ 2 = ☐ | 49 ÷ 7 = ☐ | 44 ÷ 11 = ☐

120 ÷ 12 = ☐ | 121 ÷ 11 = ☐ | 88 ÷ 11 = ☐ | 10 ÷ 5 = ☐ | 33 ÷ 11 = ☐

72 ÷ 6 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain threw down a massive slam dunk, then pulled on sticky gloves.
2. The villain faked everyone with a no look pass, then pulled up turbo socks.
3. The villain sank a half court shot, then laced up spring shoes.
4. The villain threw down a massive slam dunk, then adjusted laser goggles.
5. The villain executed a fast spin move, then bounced a glow basketball.
6. The villain faked everyone with a no look pass, then bounced a glow basketball.
7. The villain sank a half court shot, then bounced a glow basketball.
8. The villain executed a fast spin move, then pulled up turbo socks.
9. The villain faked everyone with a no look pass, then adjusted laser goggles.
10. The villain threw down a massive slam dunk, then bounced a glow basketball.
11. The villain showed off a sky hook, then pulled up turbo socks.
12. The villain sank a half court shot, then pulled up turbo socks.

TEACHER / PARENT

Answer Key

The Great Championship Trophy Mystery

Culprit: Jayson Tatum

Spin Move · Glow Basketball · Right Handed Shooter · Bright Purple Headband · Rattling Metal Rim

Trail: Start 21 → Clue 1 19 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY SUSPECT DOES NOT WEAR SPRING SHOES"

1163 + 965 = 2128 (T) · 3540 + 4228 = 7768 (S) · 3055 + 3836 = 6891 (K) · 3260 + 6421 = 9681 (A) · 3325 + 3425 = 6750 (R) · 3311 + 2375 = 5686 (Y) · 4792 + 3780 = 8572 (H) · 3227 + 3550 = 6777 (E) · 1228 + 1338 = 2566 (G) · 3755 + 4143 = 7898 (U) · 2035 + 4222 = 6257 (P) · 1359 + 1723 = 3082 (O) · 4327 + 2218 = 6545 (N) · 1669 + 1083 = 2752 (I) · 1828 + 3553 = 5381 (W) · 2683 + 1537 = 4220 (C) · 6383 + 2764 = 9147 (D)

Clue 2 (Multiplication facts (1-12)): "THE COURT WITNESS SAW A RIGHT HANDED SHOOTER"

10 × 6 = 60 (T) · 7 × 8 = 56 (N) · 7 × 1 = 7 (C) · 9 × 10 = 90 (G) · 4 × 11 = 44 (S) · 12 × 7 = 84 (U) · 3 × 6 = 18 (O) · 5 × 10 = 50 (A) · 8 × 8 = 64 (E) · 5 × 1 = 5 (D) · 11 × 12 = 132 (R) · 10 × 7 = 70 (H) · 1 × 2 = 2 (I) · 2 × 10 = 20 (W)

Clue 3 (Rounding): "THE SNEAKY VILLAIN HATES RATTLING METAL RIMS"

Round 225 to the nearest hundred = 200 (T) · Round 93 to the nearest ten = 90 (M) · Round 33 to the nearest ten = 30 (G) · Round 1,702 to the nearest hundred = 1700 (S) · Round 290 to the nearest ten = 290 (V) · Round 429 to the nearest ten = 430 (R) · Round 3,658 to the nearest hundred = 3700 (Y) · Round 2,842 to the nearest thousand = 3000 (I) · Round 2,293 to the nearest hundred = 2300 (K) · Round 4,341 to the nearest hundred = 4300 (L) · Round 2,907 to the nearest hundred = 2900 (E) · Round 459 to the nearest hundred = 500 (N) · Round 7,306 to the nearest thousand = 7000 (A) · Round 369 to the nearest ten = 370 (H)

Clue 4 (Subtraction): "THE DRESSING ROOM HELD A PURPLE HEADBAND"

8029 - 2100 = 5929 (T) · 8549 - 3113 = 5436 (I) · 6267 - 3769 = 2498 (L) · 9031 - 3912 = 5119 (D) · 7245 - 1490 = 5755 (O) · 4299 - 2004 = 2295 (A) · 11755 - 3451 = 8304 (M) · 3478 - 1466 = 2012 (H) · 4015 - 735 = 3280 (E) · 8192 - 4521 = 3671 (R) · 3544 - 1661 = 1883 (B) · 7826 - 2407 = 5419 (U) · 6651 - 3119 = 3532 (S) · 3015 - 1449 = 1566 (P) · 9512 - 2696 = 6816 (G) · 8158 - 3770 = 4388 (N)

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

66 ÷ 11 = 6 · 10 ÷ 10 = 1 · 18 ÷ 2 = 9 · 49 ÷ 7 = 7 · 44 ÷ 11 = 4 · 120 ÷ 12 = 10 · 121 ÷ 11 = 11 · 88 ÷ 11 = 8 · 10 ÷ 5 = 2 · 33 ÷ 11 = 3 · 72 ÷ 6 = 12