The Great Championship Trophy Mystery

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

Detective: _____ **Date:** _____

Right before the final championship game, someone swiped the golden trophy from center court! Review the stadium clues and decode the evidence to catch the suspect.

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.

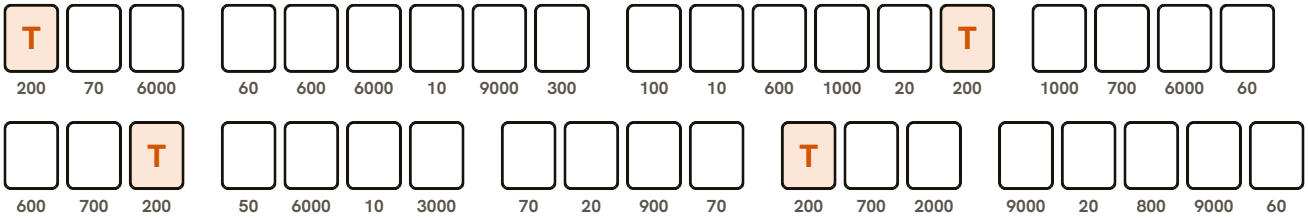
NAME	SIGNATURE MOVE	LUCKY GEAR	SHOOTING HAND	HAIRSTYLE	DISTRACTION
Tanya Brooks	Sky Hook	Grip Gloves	Right Handed	Short Buzz	Whistle Blow
Tyler Vance	Ankle Breaker	Padded Sleeves	Right Handed	Braided Hair	Loud Buzzer
Syd Ellis	No Look Pass	High Top Kicks	Right Handed	Short Buzz	Loud Buzzer
Jax Lawson	Halfcourt Shot	Padded Sleeves	Left Handed	Curly Top	Whistle Blow
Jordan Reed	Slam Dunk	Neon Socks	Right Handed	Braided Hair	Loud Buzzer
Nia Taylor	Ankle Breaker	Neon Socks	Right Handed	Curly Top	Loud Buzzer
Tyson West	Ankle Breaker	Neon Socks	Left Handed	Braided Hair	Whistle Blow
Amara King	Sky Hook	High Top Kicks	Right Handed	Braided Hair	Loud Buzzer
Devon Cole	No Look Pass	Neon Socks	Right Handed	Braided Hair	Loud Buzzer
Elena Cruz	Ankle Breaker	High Top Kicks	Right Handed	Curly Top	Whistle Blow
Chloe Bennett	No Look Pass	Padded Sleeves	Right Handed	Braided Hair	Whistle Blow
Maya Lin	Ankle Breaker	Padded Sleeves	Right Handed	Curly Top	Squeaky Floor
Derek Stone	Slam Dunk	Gold Headband	Left Handed	Short Buzz	Loud Buzzer
Zoe Patel	Halfcourt Shot	Padded Sleeves	Right Handed	Braided Hair	Loud Buzzer
Rudy Hayes	Slam Dunk	Grip Gloves	Left Handed	Braided Hair	Loud Buzzer
Sam Rivera	Ankle Breaker	High Top Kicks	Right Handed	Braided Hair	Squeaky Floor
Leo Vance	No Look Pass	Grip Gloves	Right Handed	Curly Top	Squeaky Floor
Camden Price	No Look Pass	Neon Socks	Left Handed	Curly Top	Whistle Blow
Kobe Carter	Halfcourt Shot	Grip Gloves	Right Handed	Short Buzz	Loud Buzzer
Zack Miller	Ankle Breaker	Neon Socks	Left Handed	Short Buzz	Squeaky Floor
Kai Sanders	Slam Dunk	Padded Sleeves	Right Handed	Curly Top	Loud Buzzer

make your own at mathcrackers.com

CLUE 1 Place value

The arena scoreboard displays secret player stat codes based on digit positions.

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



What is the value of the 2 in 3,209? ☐ → T

What is the value of the 6 in 5,631? ☐ → N

What is the value of the 3 in 3,008? ☐ → R

What is the value of the 1 in 3,198? ☐ → B

What is the value of the 6 in 561? ☐ → S

What is the value of the 2 in 7,020? ☐ → I

What is the value of the 7 in 2,372? ☐ → H

What is the value of the 3 in 8,346? ☐ → Y

What is the value of the 9 in 962? ☐ → G

What is the value of the 9 in 9,210? ☐ → K

What is the value of the 8 in 5,846? ☐ → C

What is the value of the 7 in 736? ☐ → O

What is the value of the 6 in 56,972? ☐ → E

What is the value of the 5 in 356? ☐ → W

What is the value of the 1 in 1,776? ☐ → D

What is the value of the 2 in 62,903? ☐ → P

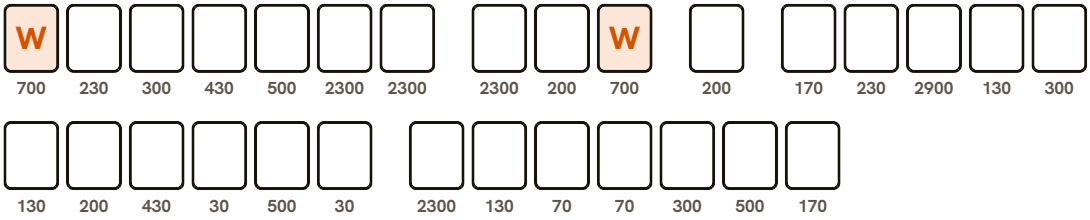
What is the value of the 1 in 413? ☐ → A

Scratch space:

CLUE 2 Rounding

The coach estimated total stadium attendance by rounding to the nearest hundred.

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



Round 718 to the nearest hundred ☐ → W

Round 228 to the nearest ten ☐ → I

Round 301 to the nearest hundred ☐ → T

Round 73 to the nearest ten ☐ → O

Round 34 to the nearest ten ☐ → D

Round 426 to the nearest ten ☐ → N

Round 173 to the nearest ten ☐ → R

Round 193 to the nearest hundred ☐ → A

Round 2,269 to the nearest hundred ☐ → S

Round 129 to the nearest ten ☐ → H

Round 2,901 to the nearest hundred ☐ → G

Round 468 to the nearest hundred ☐ → E

Scratch space:

CLUE 3 Addition

The referee added up all the team fouls recorded in the first half.

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



4722 + 2100 = ☐ → T	3366 + 3356 = ☐ → B	3756 + 5225 = ☐ → W
1740 + 1986 = ☐ → H	2683 + 4122 = ☐ → Z	1433 + 1710 = ☐ → Y
2060 + 1994 = ☐ → R	3444 + 4564 = ☐ → D	5333 + 3884 = ☐ → U
4202 + 1954 = ☐ → S	2368 + 5475 = ☐ → L	3407 + 3858 = ☐ → A
3382 + 5781 = ☐ → V	1861 + 1531 = ☐ → E	2389 + 1881 = ☐ → N
2080 + 2108 = ☐ → P	1968 + 1923 = ☐ → O	3514 + 6351 = ☐ → I

Scratch space:

CLUE 4 Subtraction

The equipment manager calculated how many practice balls were missing from the locker room.

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



5494 - 3654 = ☐ → T

2895 - 175 = ☐ → B

7184 - 3437 = ☐ → D

10697 - 1717 = ☐ → E

12097 - 4427 = ☐ → N

11927 - 3257 = ☐ → S

7371 - 2819 = ☐ → R

12259 - 3348 = ☐ → O

4668 - 2109 = ☐ → H

13210 - 4332 = ☐ → I

3323 - 614 = ☐ → C

10420 - 4237 = ☐ → F

12230 - 3629 = ☐ → A

Scratch space:

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

> The captain split energy bars equally among all five starting players.

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:

18 ÷ 3 = ☐	22 ÷ 11 = ☐	30 ÷ 10 = ☐	20 ÷ 2 = ☐	5 ÷ 1 = ☐
72 ÷ 8 = ☐	48 ÷ 12 = ☐	49 ÷ 7 = ☐	24 ÷ 2 = ☐	96 ÷ 12 = ☐
44 ÷ 4 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain threw a no look pass, then adjusted neon socks.
2. The villain executed an ankle breaker, then pulled up padded sleeves.
3. The villain drained a halfcourt shot, then pulled up padded sleeves.
4. The villain dished out a sky hook, then strapped on grip gloves.
5. The villain drained a halfcourt shot, then fixed a gold headband.
6. The villain threw down a slam dunk, then adjusted neon socks.
7. The villain dished out a sky hook, then laced up high top kicks.
8. The villain threw down a slam dunk, then laced up high top kicks.
9. The villain drained a halfcourt shot, then laced up high top kicks.
10. The villain threw a no look pass, then laced up high top kicks.
11. The villain threw a no look pass, then strapped on grip gloves.
12. The villain threw down a slam dunk, then fixed a gold headband.

TEACHER / PARENT

Answer Key

The Great Championship Trophy Mystery

Culprit: Devon Cole

No Look Pass · Neon Socks · Right Handed · Braided Hair · Loud Buzzer

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY BANDIT DOES NOT WEAR HIGH TOP KICKS"

What is the value of the 2 in 3,209? = 200 (T) · What is the value of the 6 in 5,631? = 600 (N) · What is the value of the 3 in 3,008? = 3000 (R) · What is the value of the 1 in 3,198? = 100 (B) · What is the value of the 6 in 561? = 60 (S) · What is the value of the 2 in 7,020? = 20 (I) · What is the value of the 7 in 2,372? = 70 (H) · What is the value of the 3 in 8,346? = 300 (Y) · What is the value of the 9 in 962? = 900 (G) · What is the value of the 9 in 9,210? = 9000 (K) · What is the value of the 8 in 5,846? = 800 (C) · What is the value of the 7 in 736? = 700 (O) · What is the value of the 6 in 56,972? = 6000 (E) · What is the value of the 5 in 356? = 50 (W) · What is the value of the 1 in 1,776? = 1000 (D) · What is the value of the 2 in 62,903? = 2000 (P) · What is the value of the 1 in 413? = 10 (A)

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

Round 718 to the nearest hundred = 700 (W) · Round 228 to the nearest ten = 230 (I) · Round 301 to the nearest hundred = 300 (T) · Round 73 to the nearest ten = 70 (O) · Round 34 to the nearest ten = 30 (D) · Round 426 to the nearest ten = 430 (N) · Round 173 to the nearest ten = 170 (R) · Round 193 to the nearest hundred = 200 (A) · Round 2,269 to the nearest hundred = 2300 (S) · Round 129 to the nearest ten = 130 (H) · Round 2,901 to the nearest hundred = 2900 (G) · Round 468 to the nearest hundred = 500 (E)

Clue 3 (Addition): "THE VILLAIN WAS STOPPED BY A LOUD BUZZER"

4722 + 2100 = 6822 (T) · 3366 + 3356 = 6722 (B) · 3756 + 5225 = 8981 (W) · 1740 + 1986 = 3726 (H) · 2683 + 4122 = 6805 (Z) · 1433 + 1710 = 3143 (Y) · 2060 + 1994 = 4054 (R) · 3444 + 4564 = 8008 (D) · 5333 + 3884 = 9217 (U) · 4202 + 1954 = 6156 (S) · 2368 + 5475 = 7843 (L) · 3407 + 3858 = 7265 (A) · 3382 + 5781 = 9163 (V) · 1861 + 1531 = 3392 (E) · 2389 + 1881 = 4270 (N) · 2080 + 2108 = 4188 (P) · 1968 + 1923 = 3891 (O) · 3514 + 6351 = 9865 (I)

Clue 4 (Subtraction): "THE SCENE HAD STRANDS OF BRAIDED HAIR"

5494 - 3654 = 1840 (T) · 2895 - 175 = 2720 (B) · 7184 - 3437 = 3747 (D) · 10697 - 1717 = 8980 (E) · 12097 - 4427 = 7670 (N) · 11927 - 3257 = 8670 (S) · 7371 - 2819 = 4552 (R) · 12259 - 3348 = 8911 (O) · 4668 - 2109 = 2559 (H) · 13210 - 4332 = 8878 (I) · 3323 - 614 = 2709 (C) · 10420 - 4237 = 6183 (F) · 12230 - 3629 = 8601 (A)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Devon Cole

18 ÷ 3 = 6 · 22 ÷ 11 = 2 · 30 ÷ 10 = 3 · 20 ÷ 2 = 10 · 5 ÷ 1 = 5 · 72 ÷ 8 = 9 · 48 ÷ 12 = 4 · 49 ÷ 7 = 7 · 24 ÷ 2 = 12 · 96 ÷ 12 = 8 · 44 ÷ 4 = 11