



# The Championship Trophy Caper

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

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The shiny championship trophy is missing from the center court display! A mysterious prankster has swapped it with a plain golden basketball. Head Coach Leslie needs your help to find the culprit before the big game starts.

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 the court crasher 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           | DOMINANT HAND         | HAIR STYLE    | DISTRACTION            |
|------------------|-----------------|----------------------|-----------------------|---------------|------------------------|
| Aliyah Boston    | Sky hook        | Neon high-tops       | Right-handed dribbler | Braided bun   | Squeaking mascot horns |
| Jackie Young     | Buzzer beater   | Patterned arm sleeve | Right-handed dribbler | High ponytail | Loud squeaking shoes   |
| Jonquel Jones    | No-look pass    | Patterned arm sleeve | Right-handed dribbler | Curly puff    | Squeaking mascot horns |
| Rhyné Howard     | Speed dribble   | Logo water bottle    | Left-handed dribbler  | Curly puff    | Loud squeaking shoes   |
| Marina Mabrey    | Step-back three | Neon high-tops       | Left-handed dribbler  | Braided bun   | Loud squeaking shoes   |
| Jewell Loyd      | Sky hook        | Sparkly headband     | Left-handed dribbler  | Curly puff    | Loud squeaking shoes   |
| Angel Reese      | Speed dribble   | Neon high-tops       | Left-handed dribbler  | Braided bun   | Loud squeaking shoes   |
| Nneka Ogumike    | Speed dribble   | Logo water bottle    | Right-handed dribbler | Curly puff    | Squeaking mascot horns |
| Brittney Griner  | Sky hook        | Patterned arm sleeve | Left-handed dribbler  | Curly puff    | Loud squeaking shoes   |
| Aja Wilson       | No-look pass    | Gold whistle         | Left-handed dribbler  | High ponytail | Loud squeaking shoes   |
| Napheesa Collier | Sky hook        | Sparkly headband     | Right-handed dribbler | High ponytail | Bright camera flashes  |
| Breanna Stewart  | Speed dribble   | Gold whistle         | Left-handed dribbler  | Braided bun   | Bright camera flashes  |
| Alyssa Thomas    | No-look pass    | Gold whistle         | Left-handed dribbler  | Braided bun   | Bright camera flashes  |
| Chelsea Gray     | Buzzer beater   | Neon high-tops       | Left-handed dribbler  | Curly puff    | Bright camera flashes  |
| Cameron Brink    | Step-back three | Gold whistle         | Right-handed dribbler | Curly puff    | Loud squeaking shoes   |
| Arike Ogunbowale | Step-back three | Gold whistle         | Left-handed dribbler  | Curly puff    | Loud squeaking shoes   |
| Diana Taurasi    | Sky hook        | Sparkly headband     | Right-handed dribbler | Braided bun   | Squeaking mascot horns |
| Caitlin Clark    | Step-back three | Logo water bottle    | Left-handed dribbler  | Braided bun   | Squeaking mascot horns |
| DeWanna Bonner   | No-look pass    | Logo water bottle    | Left-handed dribbler  | Curly puff    | Loud squeaking shoes   |
| Sabrina Ionescu  | No-look pass    | Logo water bottle    | Right-handed dribbler | Braided bun   | Loud squeaking shoes   |
| Kahleah Copper   | Sky hook        | Logo water bottle    | Right-handed dribbler | High ponytail | Loud squeaking shoes   |

## CLUE 1

## Multiplication facts (1-12)

We need to check the ball racks in the practice gym. There are three racks, and each rack holds six basketballs. Multiply them to find the total balls, and we can unlock the security room.

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

|    |   |   |    |   |    |   |    |   |   |     |     |    |
|----|---|---|----|---|----|---|----|---|---|-----|-----|----|
| T  |   |   | T  |   |    |   |    |   |   |     |     |    |
| 30 | 5 | 3 | 30 | 5 | 81 | 3 | 63 | 5 | 2 | 100 | 144 | 49 |

  

|    |   |    |    |   |    |     |   |     |   |    |   |     |    |   |   |    |   |
|----|---|----|----|---|----|-----|---|-----|---|----|---|-----|----|---|---|----|---|
|    |   | T  | T  |   |    |     |   |     |   |    |   |     |    |   |   |    |   |
| 42 | 2 | 30 | 30 | 3 | 64 | 144 | 3 | 132 | 2 | 64 | 7 | 100 | 80 | 3 | 3 | 22 | 3 |

$10 \times 3 = \square \rightarrow \boxed{\text{T}}$

$2 \times 1 = \square \rightarrow \boxed{\text{A}}$

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

$10 \times 8 = \square \rightarrow \boxed{\text{L}}$

$11 \times 2 = \square \rightarrow \boxed{\text{V}}$

$6 \times 7 = \square \rightarrow \boxed{\text{P}}$

$7 \times 7 = \square \rightarrow \boxed{\text{O}}$

$3 \times 1 = \square \rightarrow \boxed{\text{E}}$

$1 \times 7 = \square \rightarrow \boxed{\text{M}}$

$12 \times 12 = \square \rightarrow \boxed{\text{N}}$

$9 \times 9 = \square \rightarrow \boxed{\text{I}}$

$9 \times 7 = \square \rightarrow \boxed{\text{F}}$

$11 \times 12 = \square \rightarrow \boxed{\text{D}}$

$5 \times 1 = \square \rightarrow \boxed{\text{H}}$

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

Scratch space:

## CLUE 2 Rounding

The arena ticket scanner only shows rounded numbers. We have to round the spectator count to the nearest ten to get the code for the locker room door.

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

|     |    |    |    |     |    |      |    |      |     |      |    |      |      |      |      |    |    |
|-----|----|----|----|-----|----|------|----|------|-----|------|----|------|------|------|------|----|----|
| T   |    |    |    |     |    |      |    |      |     |      |    |      |      |      |      |    |    |
| 300 | 90 | 60 | 20 | 200 | 20 | 6000 | 60 | 9000 | 300 | 8000 | 40 | 2000 | 4000 | 4000 | 3000 | 60 | 20 |

  

|      |      |     |    |     |    |    |      |    |     |     |    |     |     |      |
|------|------|-----|----|-----|----|----|------|----|-----|-----|----|-----|-----|------|
|      |      | T   |    | T   |    |    |      |    | T   |     |    |     |     |      |
| 5000 | 2000 | 300 | 90 | 300 | 90 | 60 | 3000 | 60 | 800 | 300 | 90 | 400 | 500 | 8000 |

Round 344 to the nearest hundred  → **T**

Round 6,083 to the nearest thousand  → **P**

Round 7,992 to the nearest thousand  → **D**

Round 538 to the nearest hundred  → **N**

Round 5,486 to the nearest thousand  → **W**

Round 4,256 to the nearest thousand  → **B**

Round 244 to the nearest hundred  → **U**

Round 43 to the nearest ten  → **R**

Round 62 to the nearest ten  → **E**

Round 2,591 to the nearest thousand  → **L**

Round 2,431 to the nearest thousand  → **I**

Round 792 to the nearest hundred  → **F**

Round 92 to the nearest ten  → **H**

Round 417 to the nearest hundred  → **A**

Round 9,479 to the nearest thousand  → **C**

Round 24 to the nearest ten  → **S**

Scratch space:

**CLUE 3**   **Addition**

The equipment manager is adding up the practice jerseys. Let's help her find the total sum so she can give us the witness report.

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

|              |             |             |             |             |             |             |              |             |             |             |              |             |             |             |             |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <div>S</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div>S</div> | <div></div> | <div></div> | <div></div> | <div>S</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 382          | 721         | 827         | 740         | 708         | 969         | 963         | 382          | 824         | 847         | 740         | 382          | 460         | 328         | 710         | 710         | 422         | 708         | 969         | 740         |
| <div></div>  | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div>  | <div></div> | <div></div> | <div></div> | <div></div>  | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 530          | 824         | 740         | 422         | 857         | 827         | 422         | 287          |             |             |             |              |             |             |             |             |             |             |             |             |

|                                            |                                            |                                            |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| $203 + 179 = \square \rightarrow \text{S}$ | $456 + 368 = \square \rightarrow \text{H}$ | $162 + 368 = \square \rightarrow \text{T}$ |
| $224 + 484 = \square \rightarrow \text{A}$ | $270 + 470 = \square \rightarrow \text{E}$ | $204 + 218 = \square \rightarrow \text{M}$ |
| $523 + 334 = \square \rightarrow \text{J}$ | $238 + 472 = \square \rightarrow \text{L}$ | $125 + 203 = \square \rightarrow \text{I}$ |
| $387 + 576 = \square \rightarrow \text{Y}$ | $433 + 394 = \square \rightarrow \text{U}$ | $127 + 160 = \square \rightarrow \text{P}$ |
| $299 + 422 = \square \rightarrow \text{Q}$ | $427 + 420 = \square \rightarrow \text{O}$ | $239 + 221 = \square \rightarrow \text{W}$ |
| $560 + 409 = \square \rightarrow \text{K}$ |                                            |                                            |

Scratch space:

## CLUE 4

## Subtraction

The scoreboard shows the home team score and the away team score. Subtract the smaller score from the larger score to find the point difference and open the lockbox.

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

|          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>W</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 756      | 221 | 173 | 200 | 416 | 560 | 696 | 639 | 796 | 416 | 405 | 171 | 480 | 249 | 416 | 173 | 173 |

  

|     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     |     |     |
| 218 | 639 | 303 | 405 | 796 | 171 | 303 | 249 |

$934 - 178 = \square \rightarrow \boxed{\text{W}}$

$943 - 147 = \square \rightarrow \boxed{\text{C}}$

$562 - 146 = \square \rightarrow \boxed{\text{U}}$

$447 - 274 = \square \rightarrow \boxed{\text{F}}$

$450 - 232 = \square \rightarrow \boxed{\text{H}}$

$638 - 233 = \square \rightarrow \boxed{\text{R}}$

$593 - 113 = \square \rightarrow \boxed{\text{Y}}$

$262 - 41 = \square \rightarrow \boxed{\text{E}}$

$552 - 381 = \square \rightarrow \boxed{\text{L}}$

$378 - 75 = \square \rightarrow \boxed{\text{I}}$

$929 - 233 = \square \rightarrow \boxed{\text{D}}$

$321 - 72 = \square \rightarrow \boxed{\text{P}}$

$886 - 247 = \square \rightarrow \boxed{\text{A}}$

$326 - 126 = \square \rightarrow \boxed{\text{O}}$

$664 - 104 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

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

The coach wants to divide twenty-four players into equal drills. Figure out how many players go in each group so we can get 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:**

$5 \div 1 = \boxed{\phantom{00}}$

$12 \div 1 = \boxed{\phantom{00}}$

$24 \div 6 = \boxed{\phantom{00}}$

$110 \div 10 = \boxed{\phantom{00}}$

$2 \div 2 = \boxed{\phantom{00}}$

$22 \div 11 = \boxed{\phantom{00}}$

$36 \div 6 = \boxed{\phantom{00}}$

$90 \div 10 = \boxed{\phantom{00}}$

$72 \div 9 = \boxed{\phantom{00}}$

$24 \div 8 = \boxed{\phantom{00}}$

$20 \div 2 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain sinks a wild buzzer beater, then tugs their patterned arm sleeve.
2. The villain speeds past with a speed dribble, then flashes their neon high-tops.
3. The villain throws a tricky no-look pass, then adjusts their sparkly headband.
4. The villain hits a smooth step-back three, then blows a shiny gold whistle.
5. The villain scores a high sky hook, then adjusts their sparkly headband.
6. The villain sinks a wild buzzer beater, then adjusts their sparkly headband.
7. The villain throws a tricky no-look pass, then sips from a logo water bottle.
8. The villain throws a tricky no-look pass, then flashes their neon high-tops.
9. The villain scores a high sky hook, then tugs their patterned arm sleeve.
10. The villain speeds past with a speed dribble, then blows a shiny gold whistle.
11. The villain scores a high sky hook, then sips from a logo water bottle.
12. The villain speeds past with a speed dribble, then sips from a logo water bottle.

# Answer Key

## The Championship Trophy Caper

### Culprit: DeWanna Bonner

No-look pass · Logo water bottle · Left-handed dribbler · Curly puff · Loud squeaking shoes

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

#### Clue 1 (Multiplication facts (1-12)): "THE THIEF HAS NO PATTERNED ARM SLEEVE"

$10 \times 3 = 30$  (T) ·  $2 \times 1 = 2$  (A) ·  $10 \times 10 = 100$  (S) ·  $10 \times 8 = 80$  (L) ·  $11 \times 2 = 22$  (V) ·  $6 \times 7 = 42$  (P) ·  $7 \times 7 = 49$  (O) ·  $3 \times 1 = 3$  (E) ·  $1 \times 7 = 7$  (M) ·  $12 \times 12 = 144$  (N) ·  $9 \times 9 = 81$  (I) ·  $9 \times 7 = 63$  (F) ·  $11 \times 12 = 132$  (D) ·  $5 \times 1 = 5$  (H) ·  $8 \times 8 = 64$  (R)

#### Clue 2 (Rounding): "THE SUSPECT DRIBBLES WITH THE LEFT HAND"

Round 344 to the nearest hundred = 300 (T) · Round 6,083 to the nearest thousand = 6000 (P) · Round 7,992 to the nearest thousand = 8000 (D) · Round 538 to the nearest hundred = 500 (N) · Round 5,486 to the nearest thousand = 5000 (W) · Round 4,256 to the nearest thousand = 4000 (B) · Round 244 to the nearest hundred = 200 (U) · Round 43 to the nearest ten = 40 (R) · Round 62 to the nearest ten = 60 (E) · Round 2,591 to the nearest thousand = 3000 (L) · Round 2,431 to the nearest thousand = 2000 (I) · Round 792 to the nearest hundred = 800 (F) · Round 92 to the nearest ten = 90 (H) · Round 417 to the nearest hundred = 400 (A) · Round 9,479 to the nearest thousand = 9000 (C) · Round 24 to the nearest ten = 20 (S)

#### Clue 3 (Addition): "SQUEAKY SHOES WILL MAKE THEM JUMP"

$203 + 179 = 382$  (S) ·  $456 + 368 = 824$  (H) ·  $162 + 368 = 530$  (T) ·  $224 + 484 = 708$  (A) ·  $270 + 470 = 740$  (E) ·  $204 + 218 = 422$  (M) ·  $523 + 334 = 857$  (J) ·  $238 + 472 = 710$  (L) ·  $125 + 203 = 328$  (I) ·  $387 + 576 = 963$  (Y) ·  $433 + 394 = 827$  (U) ·  $127 + 160 = 287$  (P) ·  $299 + 422 = 721$  (Q) ·  $427 + 420 = 847$  (O) ·  $239 + 221 = 460$  (W) ·  $560 + 409 = 969$  (K)

#### Clue 4 (Subtraction): "WE FOUND A CURLY PUFF HAIR CLIP"

$934 - 178 = 756$  (W) ·  $943 - 147 = 796$  (C) ·  $562 - 146 = 416$  (U) ·  $447 - 274 = 173$  (F) ·  $450 - 232 = 218$  (H) ·  $638 - 233 = 405$  (R) ·  $593 - 113 = 480$  (Y) ·  $262 - 41 = 221$  (E) ·  $552 - 381 = 171$  (L) ·  $378 - 75 = 303$  (I) ·  $929 - 233 = 696$  (D) ·  $321 - 72 = 249$  (P) ·  $886 - 247 = 639$  (A) ·  $326 - 126 = 200$  (O) ·  $664 - 104 = 560$  (N)

#### Clue 5 (Division facts (1-12)): surviving statement is box 7 → DeWanna Bonner

$5 \div 1 = 5$  ·  $12 \div 1 = 12$  ·  $24 \div 6 = 4$  ·  $110 \div 10 = 11$  ·  $2 \div 2 = 1$  ·  $22 \div 11 = 2$  ·  $36 \div 6 = 6$  ·  $90 \div 10 = 9$  ·  $72 \div 9 = 8$  ·  $24 \div 8 = 3$  ·  $20 \div 2 = 10$