



# The Championship Trophy Heist

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 5-6

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

Minutes before the final buzzer of the championship tournament, the trophy vanished from center court. A mystery player snuck past security, pulled off a flashy move, and bolted out the arena doors!

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    | SNEAKER TECH       | SHOOTING HAND        | HEADBAND COLOR       | DEFENSIVE FLAW       |
|-------------------------|-------------------|--------------------|----------------------|----------------------|----------------------|
| Jimmy Butler            | No Look Pass      | Grip Control Tread | Right Handed Shooter | Cobalt Blue Headband | Bites On Pump Fakes  |
| Jayson Tatum            | Crossover Dribble | Spring Heel Caps   | Left Handed Shooter  | Crimson Red Headband | Bites On Pump Fakes  |
| Kevin Durant            | Fadeaway Jumper   | Air Cushion Soles  | Left Handed Shooter  | Cobalt Blue Headband | Bites On Pump Fakes  |
| Anthony Davis           | Sky Hook Shot     | Grip Control Tread | Right Handed Shooter | Crimson Red Headband | Bites On Pump Fakes  |
| Paul George             | Sky Hook Shot     | Air Cushion Soles  | Left Handed Shooter  | Crimson Red Headband | Bounces Off Box Outs |
| Giannis Antetokounmpo   | Fadeaway Jumper   | Air Cushion Soles  | Right Handed Shooter | Cobalt Blue Headband | Bites On Pump Fakes  |
| Bam Adebayo             | No Look Pass      | Air Cushion Soles  | Left Handed Shooter  | Crimson Red Headband | Bounces Off Box Outs |
| Kawhi Leonard           | Crossover Dribble | Ankle Lock Straps  | Left Handed Shooter  | Cobalt Blue Headband | Fouls On Screens     |
| Nikola Jokic            | Fadeaway Jumper   | Ankle Lock Straps  | Right Handed Shooter | Cobalt Blue Headband | Bites On Pump Fakes  |
| Kyrie Irving            | No Look Pass      | Air Cushion Soles  | Left Handed Shooter  | Crimson Red Headband | Fouls On Screens     |
| DeAron Fox              | Fadeaway Jumper   | Ankle Lock Straps  | Right Handed Shooter | Crimson Red Headband | Bites On Pump Fakes  |
| Anthony Edwards         | No Look Pass      | Air Cushion Soles  | Right Handed Shooter | Cobalt Blue Headband | Fouls On Screens     |
| Shai Gilgeous Alexander | Sky Hook Shot     | Ankle Lock Straps  | Right Handed Shooter | Crimson Red Headband | Fouls On Screens     |
| LeBron James            | Euro Step Drive   | Light Up Laces     | Left Handed Shooter  | Cobalt Blue Headband | Bites On Pump Fakes  |
| Tyrese Haliburton       | Euro Step Drive   | Air Cushion Soles  | Right Handed Shooter | Cobalt Blue Headband | Bites On Pump Fakes  |
| Stephen Curry           | Fadeaway Jumper   | Light Up Laces     | Right Handed Shooter | Cobalt Blue Headband | Bounces Off Box Outs |
| Joel Embiid             | Crossover Dribble | Grip Control Tread | Right Handed Shooter | Crimson Red Headband | Fouls On Screens     |
| Luka Doncic             | Sky Hook Shot     | Air Cushion Soles  | Right Handed Shooter | Cobalt Blue Headband | Bites On Pump Fakes  |
| Trae Young              | Crossover Dribble | Air Cushion Soles  | Right Handed Shooter | Neon Yellow Headband | Bites On Pump Fakes  |
| Ja Morant               | Sky Hook Shot     | Grip Control Tread | Right Handed Shooter | Neon Yellow Headband | Fouls On Screens     |
| Damian Lillard          | Euro Step Drive   | Light Up Laces     | Right Handed Shooter | Crimson Red Headband | Bites On Pump Fakes  |

## Fractions of a number

The arena mascot found a stat sheet where only a fraction of the total player attendance numbers remained legible.

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

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 15 boxes, and the bottom row contains 15 boxes. The numbers in the top row are: 40, 7, 27, 33, 31, 33, 34, 27, 37, 40, 6, 15, 27, 33, 30, 15, 40. The numbers in the bottom row are: 21, 27, 14, 20, 14, 30, 3, 17, 27, 17, 15, 37, 3, 33, 40, 20, 14, 34, 33. The boxes containing the number 40 in the top row and the number 40 in the bottom row are highlighted in orange.

$$2/10 \text{ of } 200 = \boxed{\phantom{00}} \rightarrow \boxed{\text{T}}$$

2/8 of 12 =  → **K**

$\frac{3}{8}$  of 16 =   $\rightarrow$  **D**

$$2/4 \text{ of } 68 = \boxed{\phantom{00}} \rightarrow \boxed{\text{P}}$$

$2/6$  of 111 =   $\rightarrow$  **C**

$$\frac{1}{2} \text{ of } 28 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{A}}$$

$$\frac{1}{4} \text{ of } 124 = \boxed{\phantom{000}} \rightarrow \boxed{\text{U}}$$

$$\frac{1}{6} \text{ of } 180 = \boxed{\phantom{00}} \rightarrow \boxed{\text{N}}$$

$$4/6 \text{ of } 30 = \boxed{\phantom{00}} \rightarrow \mathbf{R}$$

5/10 of 34 =  → **L**

$$\frac{1}{4} \text{ of } 28 = \boxed{\phantom{00}} \rightarrow \boxed{\text{H}}$$

$\frac{1}{4}$  of 132 =   $\rightarrow$  **S**

$2/4$  of 30 =   $\rightarrow$  ☒

3/6 of 54 =  → **E**

$$\frac{1}{4} \text{ of } 84 = \boxed{\phantom{000}} \rightarrow \boxed{\text{W}}$$

Scratch space:

## CLUE 2

## Order of operations

The stadium scoreboard malfunctioned, requiring an order of operations code to decode the game log.

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

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| T  |    |    |    |    |    |    |    |    | T  |    |    |    |    | T  |    |    |    |    |    |
| 60 | 66 | 49 | 31 | 45 | 31 | 24 | 49 | 44 | 60 | 31 | 66 | 14 | 14 | 60 | 31 | 23 | 28 | 60 | 66 |
| T  |    |    |    |    |    |    |    |    | T  |    |    |    |    |    |    |    |    |    |    |
| 60 | 66 | 49 | 28 | 67 | 67 | 28 | 59 | 66 | 60 | 66 | 63 | 38 | 43 |    |    |    |    |    |    |

$7 \times 11 - 17 = \square \rightarrow \boxed{\text{T}}$

$13 + 9 \times 2 = \square \rightarrow \boxed{\text{S}}$

$4 \times 9 - 12 = \square \rightarrow \boxed{\text{P}}$

$4 + 2 \times 5 = \square \rightarrow \boxed{\text{O}}$

$12 \times 3 - 8 = \square \rightarrow \boxed{\text{I}}$

$39 + 4 \times 6 = \square \rightarrow \boxed{\text{A}}$

$9 \times 8 - 13 = \square \rightarrow \boxed{\text{G}}$

$11 \times 7 - 28 = \square \rightarrow \boxed{\text{E}}$

$61 + 2 \times 3 = \square \rightarrow \boxed{\text{R}}$

$10 \times 7 - 26 = \square \rightarrow \boxed{\text{C}}$

$6 \times 9 - 9 = \square \rightarrow \boxed{\text{U}}$

$8 + 3 \times 5 = \square \rightarrow \boxed{\text{W}}$

$1 + 7 \times 6 = \square \rightarrow \boxed{\text{D}}$

$45 + 3 \times 7 = \square \rightarrow \boxed{\text{H}}$

$32 + 2 \times 3 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

## CLUE 3

## Multiplication facts (1-12)

The equipment manager counted equal stacks of basketball crates stored in the home team locker room.

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

|    |    |    |     |    |     |   |    |    |    |    |    |    |    |     |    |   |    |  |  |
|----|----|----|-----|----|-----|---|----|----|----|----|----|----|----|-----|----|---|----|--|--|
| T  |    |    |     |    |     |   |    |    |    |    |    |    |    |     |    |   |    |  |  |
| 6  | 55 | 27 | 110 | 3  | 110 | 5 | 27 | 25 | 6  | 49 | 99 | 18 | 18 | 110 | 49 | 4 | 63 |  |  |
|    |    |    |     |    |     |   |    |    |    |    |    |    |    |     |    |   |    |  |  |
| 27 | 81 | 27 | 63  | 12 | 5   | 3 | 90 | 5  | 49 | 99 | 15 | 27 |    |     |    |   |    |  |  |

$3 \times 2 = \square \rightarrow \boxed{\text{T}}$

$3 \times 6 = \square \rightarrow \boxed{\text{L}}$

$9 \times 3 = \square \rightarrow \boxed{\text{E}}$

$11 \times 9 = \square \rightarrow \boxed{\text{A}}$

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

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

$5 \times 3 = \square \rightarrow \boxed{\text{K}}$

$11 \times 5 = \square \rightarrow \boxed{\text{H}}$

$11 \times 10 = \square \rightarrow \boxed{\text{S}}$

$3 \times 4 = \square \rightarrow \boxed{\text{Y}}$

$10 \times 9 = \square \rightarrow \boxed{\text{M}}$

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

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

$5 \times 5 = \square \rightarrow \boxed{\text{C}}$

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

$2 \times 2 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

## CLUE 4

## Rounding

The courtside digital radar only displayed rounded speed estimates for each player sprint.

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

|     |      |      |     |     |     |     |     |      |     |      |      |      |      |    |      |    |     |   |
|-----|------|------|-----|-----|-----|-----|-----|------|-----|------|------|------|------|----|------|----|-----|---|
| E   |      |      |     | E   |     |     | E   |      |     |      |      |      |      |    |      |    |     | E |
| 370 | 7000 | 9000 | 300 | 370 | 130 | 230 | 370 | 3700 | 110 | 3000 | 2000 | 3700 | 1300 | 20 | 5000 | 30 | 370 |   |

  

|     |     |      |     |    |      |     |     |
|-----|-----|------|-----|----|------|-----|-----|
|     | E   |      |     |    |      |     |     |
| 110 | 370 | 1300 | 300 | 20 | 1300 | 130 | 300 |

Round 373 to the nearest ten  → **E**

Round 3,713 to the nearest hundred  → **S**

Round 133 to the nearest ten  → **N**

Round 7,310 to the nearest thousand  → **V**

Round 9,311 to the nearest thousand  → **I**

Round 28 to the nearest ten  → **U**

Round 321 to the nearest hundred  → **D**

Round 4,819 to the nearest thousand  → **L**

Round 230 to the nearest ten  → **C**

Round 22 to the nearest ten  → **B**

Round 1,258 to the nearest hundred  → **A**

Round 3,315 to the nearest thousand  → **O**

Round 109 to the nearest ten  → **H**

Round 1,822 to the nearest thousand  → **W**

Scratch space:

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

The referee divided practice jerseys equally among the ball clerks to calculate the leftover gear.

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:**

$80 \div 8 = \boxed{\phantom{00}}$

$18 \div 9 = \boxed{\phantom{00}}$

$84 \div 12 = \boxed{\phantom{00}}$

$81 \div 9 = \boxed{\phantom{00}}$

$10 \div 2 = \boxed{\phantom{00}}$

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

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

$36 \div 9 = \boxed{\phantom{00}}$

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

$55 \div 5 = \boxed{\phantom{00}}$

$21 \div 7 = \boxed{\phantom{00}}$

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

1. The villain hooked the ball with a sky hook shot, then bounced away using air cushion soles.
2. The villain faked out defenders with a no look pass, then sprinted off on grip control tread.
3. The villain sank a fadeaway jumper, then sprinted off on grip control tread.
4. The villain executed a euro step drive, then sprinted off on grip control tread.
5. The villain unleashed a crossover dribble, then dashed past with ankle lock straps.
6. The villain faked out defenders with a no look pass, then flashed by using light up laces.
7. The villain executed a euro step drive, then bounced away using air cushion soles.
8. The villain unleashed a crossover dribble, then bounced away using air cushion soles.
9. The villain hooked the ball with a sky hook shot, then sprinted off on grip control tread.
10. The villain sank a fadeaway jumper, then bounced away using air cushion soles.
11. The villain executed a euro step drive, then dashed past with ankle lock straps.
12. The villain hooked the ball with a sky hook shot, then leaped clear with spring heel caps.

# Answer Key

## The Championship Trophy Heist

### Culprit: Luka Doncic

Sky Hook Shot · Air Cushion Soles · Right Handed Shooter · Cobalt Blue Headband · Bites On Pump Fakes

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

#### Clue 1 (Fractions of a number): "THE SUSPECT DOES NOT WEAR ANKLE LOCK STRAPS"

$\frac{2}{10}$  of 200 = 40 (T) ·  $\frac{2}{8}$  of 12 = 3 (K) ·  $\frac{3}{8}$  of 16 = 6 (D) ·  $\frac{2}{4}$  of 68 = 34 (P) ·  $\frac{2}{6}$  of 111 = 37 (C) ·  $\frac{1}{2}$  of 28 = 14 (A) ·  $\frac{1}{4}$  of 124 = 31 (U) ·  $\frac{1}{6}$  of 180 = 30 (N) ·  $\frac{4}{6}$  of 30 = 20 (R) ·  $\frac{5}{10}$  of 34 = 17 (L) ·  $\frac{1}{4}$  of 28 = 7 (H) ·  $\frac{1}{4}$  of 132 = 33 (S) ·  $\frac{2}{4}$  of 30 = 15 (O) ·  $\frac{3}{6}$  of 54 = 27 (E) ·  $\frac{1}{4}$  of 84 = 21 (W)

#### Clue 2 (Order of operations): "THE SUSPECT SHOOTS WITH THEIR RIGHT HAND"

$7 \times 11 - 17 = 60$  (T) ·  $13 + 9 \times 2 = 31$  (S) ·  $4 \times 9 - 12 = 24$  (P) ·  $4 + 2 \times 5 = 14$  (O) ·  $12 \times 3 - 8 = 28$  (I) ·  $39 + 4 \times 6 = 63$  (A) ·  $9 \times 8 - 13 = 59$  (G) ·  $11 \times 7 - 28 = 49$  (E) ·  $61 + 2 \times 3 = 67$  (R) ·  $10 \times 7 - 26 = 44$  (C) ·  $6 \times 9 - 9 = 45$  (U) ·  $8 + 3 \times 5 = 23$  (W) ·  $1 + 7 \times 6 = 43$  (D) ·  $45 + 3 \times 7 = 66$  (H) ·  $32 + 2 \times 3 = 38$  (N)

#### Clue 3 (Multiplication facts (1-12)): "THE SUSPECT FALLS FOR EVERY PUMP FAKE"

$3 \times 2 = 6$  (T) ·  $3 \times 6 = 18$  (L) ·  $9 \times 3 = 27$  (E) ·  $11 \times 9 = 99$  (A) ·  $7 \times 7 = 49$  (F) ·  $9 \times 9 = 81$  (V) ·  $5 \times 3 = 15$  (K) ·  $11 \times 5 = 55$  (H) ·  $11 \times 10 = 110$  (S) ·  $3 \times 4 = 12$  (Y) ·  $10 \times 9 = 90$  (M) ·  $9 \times 7 = 63$  (R) ·  $3 \times 1 = 3$  (U) ·  $5 \times 5 = 25$  (C) ·  $5 \times 1 = 5$  (P) ·  $2 \times 2 = 4$  (O)

#### Clue 4 (Rounding): "EVIDENCE SHOWS A BLUE HEADBAND"

Round 373 to the nearest ten = 370 (E) · Round 3,713 to the nearest hundred = 3700 (S) · Round 133 to the nearest ten = 130 (N) · Round 7,310 to the nearest thousand = 7000 (V) · Round 9,311 to the nearest thousand = 9000 (I) · Round 28 to the nearest ten = 30 (U) · Round 321 to the nearest hundred = 300 (D) · Round 4,819 to the nearest thousand = 5000 (L) · Round 230 to the nearest ten = 230 (C) · Round 22 to the nearest ten = 20 (B) · Round 1,258 to the nearest hundred = 1300 (A) · Round 3,315 to the nearest thousand = 3000 (O) · Round 109 to the nearest ten = 110 (H) · Round 1,822 to the nearest thousand = 2000 (W)

#### Clue 5 (Division facts (1-12)): surviving statement is box 1 → Luka Doncic

$80 \div 8 = 10$  ·  $18 \div 9 = 2$  ·  $84 \div 12 = 7$  ·  $81 \div 9 = 9$  ·  $10 \div 2 = 5$  ·  $36 \div 6 = 6$  ·  $72 \div 9 = 8$  ·  $36 \div 9 = 4$  ·  $12 \div 1 = 12$  ·  $55 \div 5 = 11$  ·  $21 \div 7 = 3$