The Case of the Missing Championship Trophy

Grade 4 math · Multiplication, Fractions of a number, Rounding, Addition, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The grand championship trophy disappeared right before tip-off at Metro Arena. The Head Coach saw a shadowy figure sneak into the team locker room. Help Detective Sam review the clues to find out which player took the trophy.

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

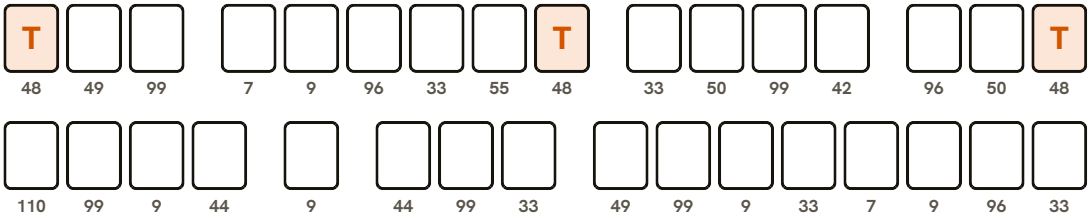
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	LUCKY GEAR	SHOOTING HAND	HAIRSTYLE	COURT WEAKNESS
Kevin Durant	No Look Pass	Gold High Tops	Left Handed Shooter	Curly Top	Double Teams
Jalen Brunson	Halfcourt Swish	Ankle Braces	Left Handed Shooter	Buzz Cut	Squeaky Floors
Shai Gilgeous Alexander	No Look Pass	Ankle Braces	Left Handed Shooter	Buzz Cut	Double Teams
Karl Anthony Towns	No Look Pass	Neon Sneakers	Right Handed Shooter	Curly Top	Loud Whistles
Kyrie Irving	Fast Break Slam	Padded Arm Sleeve	Right Handed Shooter	Braided Cornrows	Double Teams
Kawhi Leonard	Crossover Dribble	Ankle Braces	Right Handed Shooter	Braided Cornrows	Double Teams
Joel Embiid	Skyhook Shot	Red Headband	Right Handed Shooter	Braided Cornrows	Double Teams
Anthony Davis	Fast Break Slam	Neon Sneakers	Right Handed Shooter	Braided Cornrows	Squeaky Floors
Anthony Edwards	No Look Pass	Red Headband	Left Handed Shooter	Braided Cornrows	Double Teams
Trae Young	Halfcourt Swish	Padded Arm Sleeve	Right Handed Shooter	Buzz Cut	Double Teams
DeAron Fox	No Look Pass	Gold High Tops	Left Handed Shooter	Curly Top	Loud Whistles
Giannis Antetokounmpo	Crossover Dribble	Neon Sneakers	Left Handed Shooter	Braided Cornrows	Double Teams
Luka Doncic	Skyhook Shot	Ankle Braces	Left Handed Shooter	Braided Cornrows	Double Teams
Donovan Mitchell	Halfcourt Swish	Neon Sneakers	Right Handed Shooter	Buzz Cut	Double Teams
Steph Curry	Crossover Dribble	Neon Sneakers	Right Handed Shooter	Curly Top	Squeaky Floors
Ja Morant	No Look Pass	Padded Arm Sleeve	Right Handed Shooter	Braided Cornrows	Double Teams
Nikola Jokic	Crossover Dribble	Padded Arm Sleeve	Right Handed Shooter	Braided Cornrows	Double Teams
Jimmy Butler	Skyhook Shot	Red Headband	Right Handed Shooter	Braided Cornrows	Loud Whistles
Damian Lillard	No Look Pass	Red Headband	Right Handed Shooter	Curly Top	Squeaky Floors
Devin Booker	Crossover Dribble	Red Headband	Right Handed Shooter	Buzz Cut	Squeaky Floors
Bam Adebayo	Crossover Dribble	Padded Arm Sleeve	Right Handed Shooter	Braided Cornrows	Loud Whistles

CLUE 1 Multiplication facts (1-12)

> The court manager checked the racks of basketballs counting multiple rows stacked evenly.

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



12 × 4 = ☐ → **T**

11 × 3 = ☐ → **D**

10 × 11 = ☐ → **W**

7 × 1 = ☐ → **B**

9 × 11 = ☐ → **E**

4 × 11 = ☐ → **R**

7 × 7 = ☐ → **H**

8 × 12 = ☐ → **N**

11 × 5 = ☐ → **I**

1 × 9 = ☐ → **A**

6 × 7 = ☐ → **S**

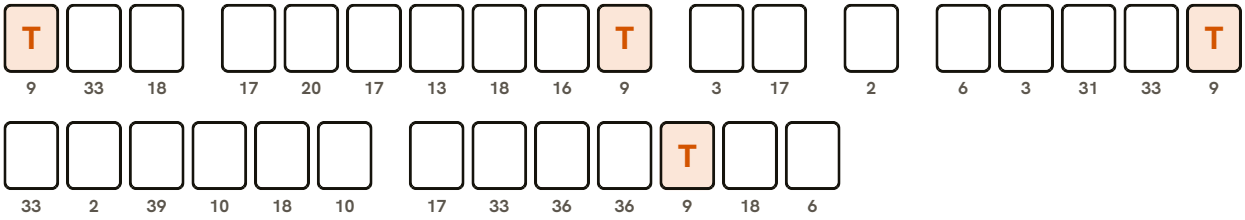
5 × 10 = ☐ → **O**

Scratch space:

CLUE 2 Fractions of a number

> The assistant coach measured out a fraction of the sports drink cooler for the bench.

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



1/6 of 54 = ☐ → T

1/4 of 80 = ☐ → U

4/8 of 32 = ☐ → C

4/8 of 78 = ☐ → N

2/8 of 8 = ☐ → A

2/10 of 155 = ☐ → G

6/8 of 48 = ☐ → O

1/3 of 39 = ☐ → P

6/10 of 30 = ☐ → E

3/5 of 55 = ☐ → H

1/4 of 68 = ☐ → S

1/3 of 30 = ☐ → D

2/10 of 15 = ☐ → I

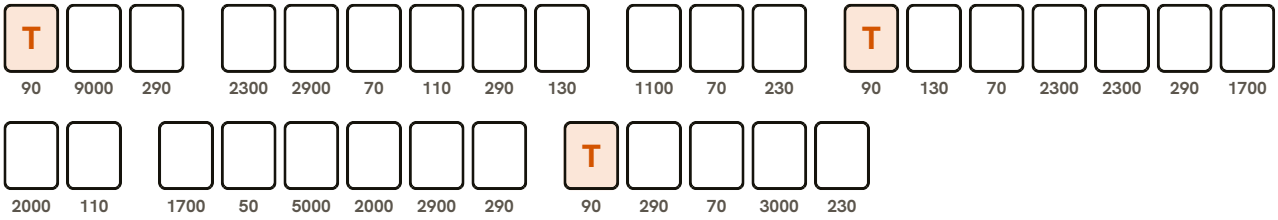
1/10 of 60 = ☐ → R

Scratch space:

CLUE 3 Rounding

The arena digital scoreboard rounded up the total attendance estimate for game night.

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



Round 88 to the nearest ten ☐ → **T**

Round 113 to the nearest ten ☐ → **Y**

Round 4,603 to the nearest thousand ☐ → **U**

Round 133 to the nearest ten ☐ → **R**

Round 2,922 to the nearest hundred ☐ → **L**

Round 1,761 to the nearest thousand ☐ → **B**

Round 50 to the nearest ten ☐ → **O**

Round 227 to the nearest ten ☐ → **S**

Round 292 to the nearest ten ☐ → **E**

Round 9,157 to the nearest thousand ☐ → **H**

Round 1,696 to the nearest hundred ☐ → **D**

Round 1,095 to the nearest hundred ☐ → **W**

Round 2,287 to the nearest hundred ☐ → **P**

Round 68 to the nearest ten ☐ → **A**

Round 3,358 to the nearest thousand ☐ → **M**

Scratch space:

CLUE 4 Addition

Detective Sam added up all the lost equipment logs found behind the bleachers.

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



2269 + 3589 = ☐ → S

3433 + 4349 = ☐ → E

2433 + 4016 = ☐ → N

2158 + 3146 = ☐ → I

2924 + 2729 = ☐ → U

3543 + 5840 = ☐ → C

3797 + 5116 = ☐ → O

3123 + 6120 = ☐ → W

1819 + 3675 = ☐ → F

3563 + 4194 = ☐ → T

2006 + 2907 = ☐ → H

1832 + 2572 = ☐ → R

3674 + 2240 = ☐ → D

3961 + 2639 = ☐ → Y

4012 + 3929 = ☐ → A

998 + 1393 = ☐ → B

Scratch space:

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

> The referee split the practice jerseys equally among all five starting lineups.

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:

30 ÷ 5 = ☐	44 ÷ 11 = ☐	96 ÷ 8 = ☐	70 ÷ 7 = ☐	45 ÷ 5 = ☐
96 ÷ 12 = ☐	6 ÷ 6 = ☐	40 ÷ 8 = ☐	21 ÷ 3 = ☐	15 ÷ 5 = ☐
8 ÷ 4 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain threw a no look pass, then laced up neon sneakers.
2. The villain sank a skyhook shot, then tightened ankle braces.
3. The villain sank a skyhook shot, then laced up neon sneakers.
4. The villain threw a no look pass, then pulled up a padded arm sleeve.
5. The villain hit a halfcourt swish, then laced up neon sneakers.
6. The villain showed off a crossover dribble, then pulled up a padded arm sleeve.
7. The villain hit a halfcourt swish, then adjusted a red headband.
8. The villain threw a no look pass, then tightened ankle braces.
9. The villain showed off a crossover dribble, then adjusted a red headband.
10. The villain showed off a crossover dribble, then laced up neon sneakers.
11. The villain ran a fast break slam, then pulled up a padded arm sleeve.
12. The villain showed off a crossover dribble, then tightened ankle braces.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Trophy

Culprit: Kyrie Irving

Fast Break Slam · Padded Arm Sleeve · Right Handed Shooter · Braided Cornrows · Double Teams

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT WEAR A RED HEADBAND"

12 × 4 = 48 (T) · 11 × 3 = 33 (D) · 10 × 11 = 110 (W) · 7 × 1 = 7 (B) · 9 × 11 = 99 (E) · 4 × 11 = 44 (R) · 7 × 7 = 49 (H) · 8 × 12 = 96 (N) · 11 × 5 = 55 (I) · 1 × 9 = 9 (A) · 6 × 7 = 42 (S) · 5 × 10 = 50 (O)

Clue 2 (Fractions of a number): "THE SUSPECT IS A RIGHT HANDED SHOOTER"

1/6 of 54 = 9 (T) · 1/4 of 80 = 20 (U) · 4/8 of 32 = 16 (C) · 4/8 of 78 = 39 (N) · 2/8 of 8 = 2 (A) · 2/10 of 155 = 31 (G) · 6/8 of 48 = 36 (O) · 1/3 of 39 = 13 (P) · 6/10 of 30 = 18 (E) · 3/5 of 55 = 33 (H) · 1/4 of 68 = 17 (S) · 1/3 of 30 = 10 (D) · 2/10 of 15 = 3 (I) · 1/10 of 60 = 6 (R)

Clue 3 (Rounding): "THE PLAYER WAS TRAPPED BY DOUBLE TEAMS"

Round 88 to the nearest ten = 90 (T) · Round 113 to the nearest ten = 110 (Y) · Round 4,603 to the nearest thousand = 5000 (U) · Round 133 to the nearest ten = 130 (R) · Round 2,922 to the nearest hundred = 2900 (L) · Round 1,761 to the nearest thousand = 2000 (B) · Round 50 to the nearest ten = 50 (O) · Round 227 to the nearest ten = 230 (S) · Round 292 to the nearest ten = 290 (E) · Round 9,157 to the nearest thousand = 9000 (H) · Round 1,696 to the nearest hundred = 1700 (D) · Round 1,095 to the nearest hundred = 1100 (W) · Round 2,287 to the nearest hundred = 2300 (P) · Round 68 to the nearest ten = 70 (A) · Round 3,358 to the nearest thousand = 3000 (M)

Clue 4 (Addition): "SECURITY FOUND BRAIDED CORNROWS HAIR"

2269 + 3589 = 5858 (S) · 3433 + 4349 = 7782 (E) · 2433 + 4016 = 6449 (N) · 2158 + 3146 = 5304 (I) · 2924 + 2729 = 5653 (U) · 3543 + 5840 = 9383 (C) · 3797 + 5116 = 8913 (O) · 3123 + 6120 = 9243 (W) · 1819 + 3675 = 5494 (F) · 3563 + 4194 = 7757 (T) · 2006 + 2907 = 4913 (H) · 1832 + 2572 = 4404 (R) · 3674 + 2240 = 5914 (D) · 3961 + 2639 = 6600 (Y) · 4012 + 3929 = 7941 (A) · 998 + 1393 = 2391 (B)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Kyrie Irving

30 ÷ 5 = 6 · 44 ÷ 11 = 4 · 96 ÷ 8 = 12 · 70 ÷ 7 = 10 · 45 ÷ 5 = 9 · 96 ÷ 12 = 8 · 6 ÷ 6 = 1 · 40 ÷ 8 = 5 · 21 ÷ 3 = 7 · 15 ÷ 5 = 3 · 8 ÷ 4 = 2