The Mystery of the Missing Championship Trophy

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

Detective: _____ **Date:** _____

Right before the final buzzer of the big tournament, the golden championship trophy vanished from the center court display! The Hoop Bandit snuck into the arena, pulled off a wild trick move, and zipped away into the locker rooms.

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.

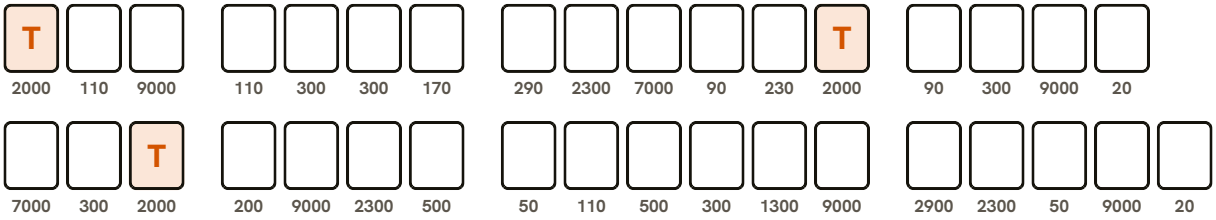
NAME	SIGNATURE MOVE	SNEAKER STYLE	SHOOTING HAND	HEADBAND COLOR	COURT FLAW
Kawhi Leonard	Half Court Hook	Foam Cushions	Right Handed Shooter	Red Headband	Squeaky Shoes
Jaylen Brown	Fast Break Dash	Neon Soles	Right Handed Shooter	Red Headband	Loud Whistle
Paul George	High Flying Slam	High Tops	Right Handed Shooter	Neon Headband	Loud Whistle
Ja Morant	Fast Break Dash	Foam Cushions	Left Handed Shooter	Red Headband	Squeaky Shoes
Kyrie Irving	No Look Pass	High Tops	Left Handed Shooter	Red Headband	Squeaky Shoes
Jayson Tatum	High Flying Slam	Foam Cushions	Left Handed Shooter	Blue Headband	Squeaky Shoes
Joel Embiid	Fast Break Dash	Foam Cushions	Right Handed Shooter	Blue Headband	Loud Whistle
Giannis Antetokounmpo	Half Court Hook	Chrome Laces	Right Handed Shooter	Red Headband	Loud Whistle
Jimmy Butler	High Flying Slam	Foam Cushions	Left Handed Shooter	Neon Headband	Squeaky Shoes
DeAaron Fox	High Flying Slam	High Tops	Left Handed Shooter	Neon Headband	Loud Whistle
Donovan Mitchell	No Look Pass	Light Up Heels	Left Handed Shooter	Red Headband	Squeaky Shoes
Damian Lillard	Fast Break Dash	Foam Cushions	Left Handed Shooter	Neon Headband	Squeaky Shoes
Tyrese Haliburton	High Flying Slam	Foam Cushions	Left Handed Shooter	Red Headband	Squeaky Shoes
Luka Doncic	Half Court Hook	High Tops	Left Handed Shooter	Blue Headband	Loud Whistle
Trae Young	High Flying Slam	High Tops	Left Handed Shooter	Neon Headband	Squeaky Shoes
Anthony Edwards	Ankle Breaker Dribble	Foam Cushions	Left Handed Shooter	Blue Headband	Squeaky Shoes
Bam Adebayo	Fast Break Dash	Light Up Heels	Right Handed Shooter	Red Headband	Slippery Floor
Nikola Jokic	Ankle Breaker Dribble	Light Up Heels	Left Handed Shooter	Red Headband	Slippery Floor
Kevin Durant	No Look Pass	Foam Cushions	Right Handed Shooter	Blue Headband	Squeaky Shoes
Anthony Davis	Half Court Hook	Chrome Laces	Left Handed Shooter	Red Headband	Squeaky Shoes
Devin Booker	Half Court Hook	High Tops	Right Handed Shooter	Red Headband	Squeaky Shoes

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CLUE 1 Rounding

The arena scoreboard estimated the total fan attendance by rounding to the nearest hundred.

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



Round 2,372 to the nearest thousand ☐ → T

Round 2,924 to the nearest hundred ☐ → L

Round 23 to the nearest ten ☐ → S

Round 53 to the nearest ten ☐ → C

Round 329 to the nearest hundred ☐ → O

Round 8,660 to the nearest thousand ☐ → E

Round 286 to the nearest ten ☐ → B

Round 2,304 to the nearest hundred ☐ → A

Round 1,325 to the nearest hundred ☐ → M

Round 106 to the nearest ten ☐ → H

Round 230 to the nearest hundred ☐ → W

Round 174 to the nearest ten ☐ → P

Round 228 to the nearest ten ☐ → I

Round 86 to the nearest ten ☐ → D

Round 517 to the nearest hundred ☐ → R

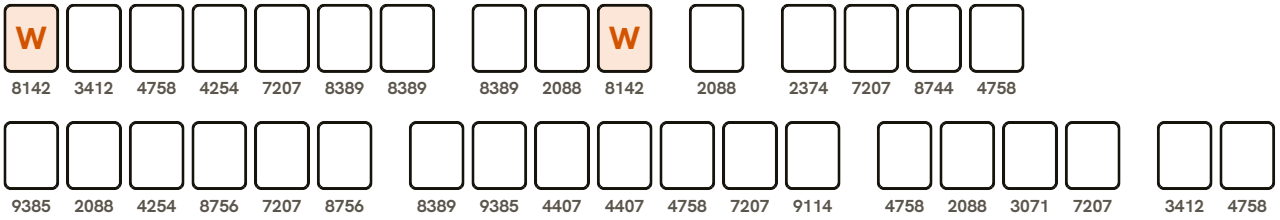
Round 7,274 to the nearest thousand ☐ → N

Scratch space:

CLUE 2 Addition

Coach Jamison tallied up all the basketballs gathered from both team racks.

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



5518 + 2624 = ☐ → W	4067 + 3140 = ☐ → E	872 + 1216 = ☐ → A
1676 + 3082 = ☐ → T	3851 + 4893 = ☐ → F	2652 + 1602 = ☐ → N
3496 + 5618 = ☐ → R	2343 + 1069 = ☐ → I	4905 + 4480 = ☐ → H
1764 + 1307 = ☐ → K	2182 + 2225 = ☐ → O	972 + 1402 = ☐ → L
4925 + 3831 = ☐ → D	3912 + 4477 = ☐ → S	

Scratch space:

CLUE 3 Subtraction

> The manager checked how many jerseys were left after handing out practice gear.

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



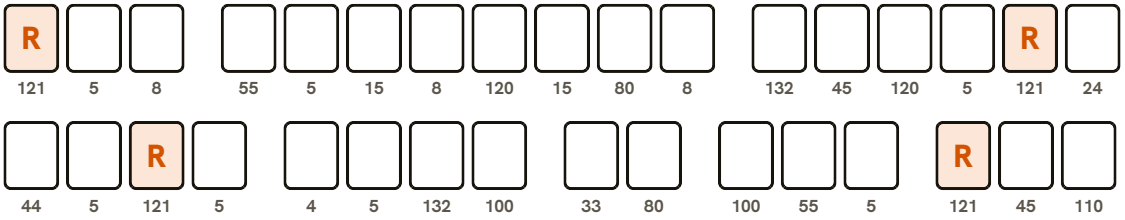
5899 - 3555 = ☐ → T	8398 - 852 = ☐ → Y	4334 - 585 = ☐ → D
4865 - 2027 = ☐ → B	11675 - 3728 = ☐ → L	5962 - 1464 = ☐ → G
8803 - 4286 = ☐ → H	4801 - 1216 = ☐ → S	5728 - 2909 = ☐ → O
6070 - 4952 = ☐ → U	8002 - 4609 = ☐ → I	8338 - 1168 = ☐ → E
2519 - 1275 = ☐ → C	10508 - 4736 = ☐ → N	9261 - 1126 = ☐ → K
5210 - 908 = ☐ → R	10070 - 1286 = ☐ → A	7620 - 2636 = ☐ → Q

Scratch space:

CLUE 4 Multiplication facts (1-12)

The equipment manager arranged the high top sneakers into equal rows across the gym floor.

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



11 × 11 = ☐ → R

11 × 5 = ☐ → H

11 × 12 = ☐ → F

11 × 10 = ☐ → M

2 × 2 = ☐ → L

11 × 3 = ☐ → O

5 × 1 = ☐ → E

10 × 12 = ☐ → B

8 × 10 = ☐ → N

9 × 5 = ☐ → I

10 × 10 = ☐ → T

2 × 4 = ☐ → D

4 × 11 = ☐ → W

5 × 3 = ☐ → A

8 × 3 = ☐ → S

Scratch space:

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

> The captain split the remaining energy drinks equally among all players on the court.

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:

24 ÷ 12 = ☐	1 ÷ 1 = ☐	48 ÷ 12 = ☐	72 ÷ 9 = ☐	84 ÷ 12 = ☐
48 ÷ 4 = ☐	99 ÷ 9 = ☐	18 ÷ 2 = ☐	36 ÷ 6 = ☐	40 ÷ 4 = ☐
24 ÷ 8 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain dashed down the wooden parquet, then adjusted foam cushions.
2. The villain faked out the entire home bench, then clicked on light up heels.
3. The villain dribbled through the gym defense, then clicked on light up heels.
4. The villain dunked the glowing game ball, then adjusted foam cushions.
5. The villain faked out the entire home bench, then tightened high tops.
6. The villain sank a half court trick shot, then laced up neon soles.
7. The villain dunked the glowing game ball, then clicked on light up heels.
8. The villain dashed down the wooden parquet, then tightened high tops.
9. The villain sank a half court trick shot, then tightened high tops.
10. The villain faked out the entire home bench, then laced up neon soles.
11. The villain dribbled through the gym defense, then snapped on chrome laces.
12. The villain sank a half court trick shot, then clicked on light up heels.

TEACHER / PARENT

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Kyrie Irving

No Look Pass · High Tops · Left Handed Shooter · Red Headband · Squeaky Shoes

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE HOOP BANDIT DOES NOT WEAR CHROME LACES"

Round 2,372 to the nearest thousand = 2000 (T) · Round 2,924 to the nearest hundred = 2900 (L) · Round 23 to the nearest ten = 20 (S) · Round 53 to the nearest ten = 50 (C) · Round 329 to the nearest hundred = 300 (O) · Round 8,660 to the nearest thousand = 9000 (E) · Round 286 to the nearest ten = 290 (B) · Round 2,304 to the nearest hundred = 2300 (A) · Round 1,325 to the nearest hundred = 1300 (M) · Round 106 to the nearest ten = 110 (H) · Round 230 to the nearest hundred = 200 (W) · Round 174 to the nearest ten = 170 (P) · Round 228 to the nearest ten = 230 (I) · Round 86 to the nearest ten = 90 (D) · Round 517 to the nearest hundred = 500 (R) · Round 7,274 to the nearest thousand = 7000 (N)

Clue 2 (Addition): "WITNESS SAW A LEFT HANDED SHOOTER TAKE IT"

5518 + 2624 = 8142 (W) · 4067 + 3140 = 7207 (E) · 872 + 1216 = 2088 (A) · 1676 + 3082 = 4758 (T) · 3851 + 4893 = 8744 (F) · 2652 + 1602 = 4254 (N) · 3496 + 5618 = 9114 (R) · 2343 + 1069 = 3412 (I) · 4905 + 4480 = 9385 (H) · 1764 + 1307 = 3071 (K) · 2182 + 2225 = 4407 (O) · 972 + 1402 = 2374 (L) · 4925 + 3831 = 8756 (D) · 3912 + 4477 = 8389 (S)

Clue 3 (Subtraction): "THE GUARD HEARD SQUEAKY SHOES AND BLOCKED IT"

5899 - 3555 = 2344 (T) · 8398 - 852 = 7546 (Y) · 4334 - 585 = 3749 (D) · 4865 - 2027 = 2838 (B) · 11675 - 3728 = 7947 (L) · 5962 - 1464 = 4498 (G) · 8803 - 4286 = 4517 (H) · 4801 - 1216 = 3585 (S) · 5728 - 2909 = 2819 (O) · 6070 - 4952 = 1118 (U) · 8002 - 4609 = 3393 (I) · 8338 - 1168 = 7170 (E) · 2519 - 1275 = 1244 (C) · 10508 - 4736 = 5772 (N) · 9261 - 1126 = 8135 (K) · 5210 - 908 = 4302 (R) · 10070 - 1286 = 8784 (A) · 7620 - 2636 = 4984 (Q)

Clue 4 (Multiplication facts (1-12)): "RED HEADBAND FIBERS WERE LEFT ON THE RIM"

11 × 11 = 121 (R) · 11 × 5 = 55 (H) · 11 × 12 = 132 (F) · 11 × 10 = 110 (M) · 2 × 2 = 4 (L) · 11 × 3 = 33 (O) · 5 × 1 = 5 (E) · 10 × 12 = 120 (B) · 8 × 10 = 80 (N) · 9 × 5 = 45 (I) · 10 × 10 = 100 (T) · 2 × 4 = 8 (D) · 4 × 11 = 44 (W) · 5 × 3 = 15 (A) · 8 × 3 = 24 (S)

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

24 ÷ 12 = 2 · 1 ÷ 1 = 1 · 48 ÷ 12 = 4 · 72 ÷ 9 = 8 · 84 ÷ 12 = 7 · 48 ÷ 4 = 12 · 99 ÷ 9 = 11 · 18 ÷ 2 = 9 · 36 ÷ 6 = 6 · 40 ÷ 4 = 10 · 24 ÷ 8 = 3