The Championship Trophy Caper

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

Detective: _____ **Date:** _____

Just hours before the championship tip off, someone sneaked onto the court at Metro Arena and took the golden trophy right from its locked display case.

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 phantom is _____

Possible suspects

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

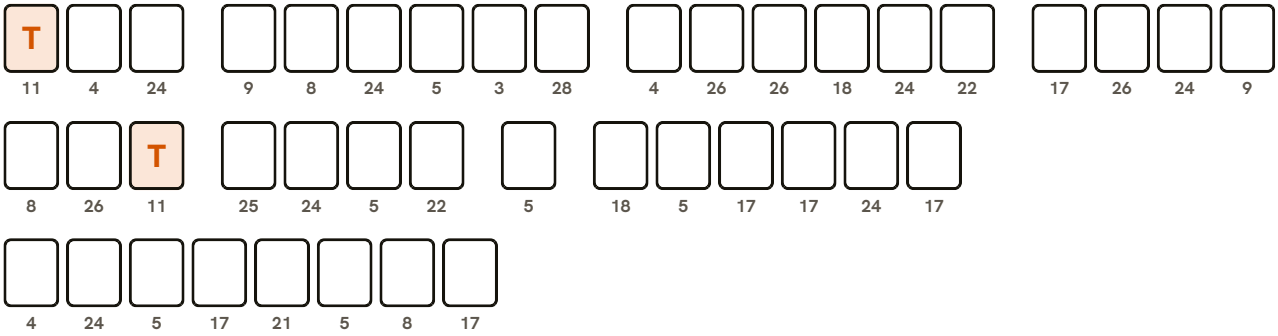
NAME	SIGNATURE MOVE	COURT GEAR	SHOOTING STYLE	HAIRSTYLE	DISTINGUISHING SOUND
Jaylen Brown	Sky Hook Shot	High Top Sneakers	Left Handed Shooter	Braided Cornrows	Squeaky Sneakers
Trae Young	Crossover Dribble	Weighted Wristband	Left Handed Shooter	Braided Cornrows	Squeaky Sneakers
Anthony Davis	Step Back Three	Weighted Wristband	Right Handed Shooter	Short Fade	Loud Whistle Sound
Kevin Durant	Fadeaway Jumper	Padded Headband	Left Handed Shooter	Curly Top	Loud Whistle Sound
Luka Doncic	Sky Hook Shot	Neon Armband	Right Handed Shooter	Braided Cornrows	Squeaky Sneakers
Jimmy Butler	Crossover Dribble	High Top Sneakers	Left Handed Shooter	Braided Cornrows	Squeaky Sneakers
Devin Booker	Step Back Three	High Top Sneakers	Left Handed Shooter	Braided Cornrows	Squeaky Sneakers
Tyrese Haliburton	Step Back Three	Grip Socks	Right Handed Shooter	Braided Cornrows	Squeaky Sneakers
Jayson Tatum	No Look Pass	Neon Armband	Left Handed Shooter	Braided Cornrows	Squeaky Sneakers
Donovan Mitchell	Fadeaway Jumper	Grip Socks	Right Handed Shooter	Braided Cornrows	Squeaky Sneakers
Anthony Edwards	Step Back Three	Neon Armband	Right Handed Shooter	Braided Cornrows	Loud Whistle Sound
Ja Morant	No Look Pass	Padded Headband	Left Handed Shooter	Curly Top	Bouncing Ball Sound
Zion Williamson	Fadeaway Jumper	Neon Armband	Right Handed Shooter	Short Fade	Squeaky Sneakers
DeAaron Fox	Crossover Dribble	Padded Headband	Left Handed Shooter	Braided Cornrows	Bouncing Ball Sound
Giannis Antetokounmpo	Fadeaway Jumper	Grip Socks	Right Handed Shooter	Short Fade	Bouncing Ball Sound
Bam Adebayo	Fadeaway Jumper	High Top Sneakers	Left Handed Shooter	Short Fade	Bouncing Ball Sound
Steph Curry	Fadeaway Jumper	Grip Socks	Left Handed Shooter	Curly Top	Squeaky Sneakers
LeBron James	Fadeaway Jumper	Neon Armband	Right Handed Shooter	Braided Cornrows	Squeaky Sneakers
Shai Gilgeous Alexander	Sky Hook Shot	Grip Socks	Right Handed Shooter	Braided Cornrows	Loud Whistle Sound
Damian Lillard	Sky Hook Shot	Padded Headband	Right Handed Shooter	Braided Cornrows	Squeaky Sneakers
Nikola Jokic	Sky Hook Shot	Weighted Wristband	Left Handed Shooter	Curly Top	Loud Whistle Sound

make your own at mathcrackers.com

CLUE 1 Fractions of a number

Coach Marcus counted a fraction of the practice jerseys to unlock the court storage box.

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



1/4 of 44 = ☐ → T

7/10 of 30 = ☐ → B

1/2 of 34 = ☐ → D

2/10 of 20 = ☐ → H

1/4 of 96 = ☐ → E

1/3 of 15 = ☐ → A

1/2 of 18 = ☐ → S

2/3 of 42 = ☐ → Y

6/8 of 24 = ☐ → P

3/5 of 5 = ☐ → K

5/10 of 44 = ☐ → R

1/4 of 104 = ☐ → O

1/6 of 48 = ☐ → N

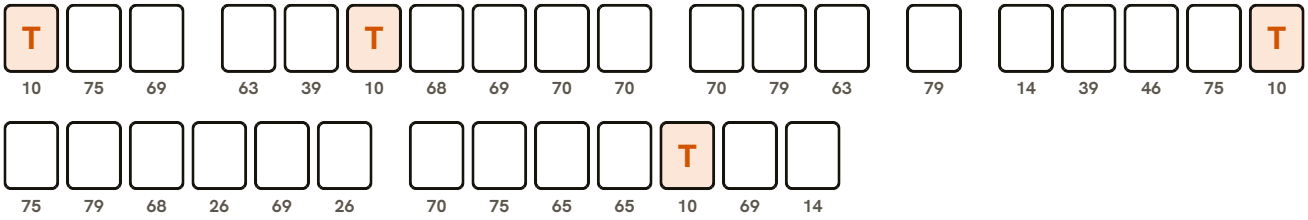
4/8 of 50 = ☐ → W

Scratch space:

CLUE 2 Order of operations

The stat keeper calculated the multi step court index using precise steps.

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



7 × 5 - 25 = ☐ → T

8 × 11 - 19 = ☐ → E

54 + 8 × 2 = ☐ → S

9 × 10 - 22 = ☐ → N

8 × 11 - 25 = ☐ → W

8 × 6 - 2 = ☐ → G

6 × 9 - 15 = ☐ → I

6 × 7 - 16 = ☐ → D

6 × 12 - 7 = ☐ → O

4 + 2 × 5 = ☐ → R

63 + 2 × 8 = ☐ → A

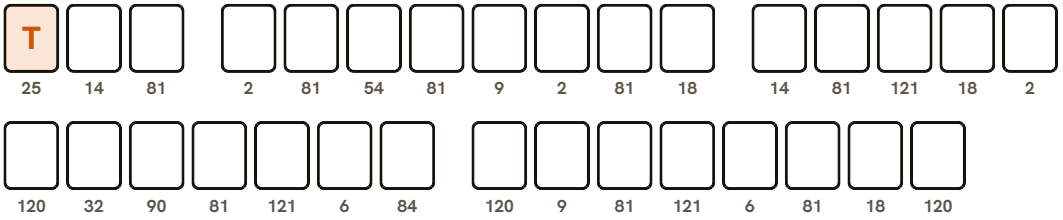
51 + 8 × 3 = ☐ → H

Scratch space:

CLUE 3 Multiplication facts (1-12)

> The equipment manager tallied equal rows of basketball racks on the sideline.

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



5 × 5 = ☐ → T

6 × 3 = ☐ → R

12 × 7 = ☐ → Y

9 × 9 = ☐ → E

11 × 11 = ☐ → A

4 × 8 = ☐ → Q

1 × 2 = ☐ → D

6 × 1 = ☐ → K

3 × 3 = ☐ → N

7 × 2 = ☐ → H

10 × 9 = ☐ → U

10 × 12 = ☐ → S

6 × 9 = ☐ → F

Scratch space:

CLUE 4 Rounding

The electronic scoreboard rounded the total shot chart distance to the nearest ten yards.

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

E				E															
4300	2300	1700	300	4300	70	230	300	430	90	230	90	370	7000	2000	90				

					E													
3000	500	20	1700	300	4300	300	1300	7000	500	70	500	7000	2000	90				

Round 4,265 to the nearest hundred ☐ → E

Round 91 to the nearest ten ☐ → S

Round 1,257 to the nearest hundred ☐ → C

Round 73 to the nearest ten ☐ → N

Round 431 to the nearest ten ☐ → U

Round 6,947 to the nearest thousand ☐ → O

Round 370 to the nearest ten ☐ → H

Round 1,708 to the nearest hundred ☐ → I

Round 230 to the nearest ten ☐ → T

Round 2,699 to the nearest thousand ☐ → B

Round 2,264 to the nearest hundred ☐ → V

Round 20 to the nearest ten ☐ → A

Round 254 to the nearest hundred ☐ → D

Round 499 to the nearest hundred ☐ → R

Round 2,415 to the nearest thousand ☐ → W

Scratch space:

CLUE 5 Fractions of a number - the last clue

The team trainer checked a fraction of the sports drink bottles remaining on the bench.

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:

1/8 of 88 = ☐	1/10 of 20 = ☐	2/10 of 20 = ☐	1/2 of 6 = ☐
7/8 of 8 = ☐	2/4 of 20 = ☐	2/10 of 5 = ☐	4/6 of 12 = ☐
1/2 of 12 = ☐	5/10 of 10 = ☐	4/8 of 18 = ☐	

Step 2 - cross out the sentence with each answer:

1. The villain tossed a no look pass, then laced up high top sneakers.
2. The villain drained a fadeaway jumper, then pulled up grip socks.
3. The villain tossed a no look pass, then pulled up grip socks.
4. The villain drained a fadeaway jumper, then adjusted a neon armband.
5. The villain tossed a no look pass, then tightened a weighted wristband.
6. The villain sank a sky hook shot, then pulled up grip socks.
7. The villain sank a sky hook shot, then tightened a weighted wristband.
8. The villain did a crossover dribble, then laced up high top sneakers.
9. The villain did a crossover dribble, then tightened a weighted wristband.
10. The villain tossed a no look pass, then adjusted a neon armband.
11. The villain hit a step back three, then pulled up grip socks.
12. The villain sank a sky hook shot, then adjusted a neon armband.

TEACHER / PARENT

Answer Key

The Championship Trophy Caper

Culprit: Luka Doncic

Sky Hook Shot · Neon Armband · Right Handed Shooter · Braided Cornrows · Squeaky Sneakers

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SNEAKY HOOPER DOES NOT WEAR A PADDED HEADBAND"

1/4 of 44 = 11 (T) · 7/10 of 30 = 21 (B) · 1/2 of 34 = 17 (D) · 2/10 of 20 = 4 (H) · 1/4 of 96 = 24 (E) · 1/3 of 15 = 5 (A) · 1/2 of 18 = 9 (S) · 2/3 of 42 = 28 (Y) · 6/8 of 24 = 18 (P) · 3/5 of 5 = 3 (K) · 5/10 of 44 = 22 (R) · 1/4 of 104 = 26 (O) · 1/6 of 48 = 8 (N) · 4/8 of 50 = 25 (W)

Clue 2 (Order of operations): "THE WITNESS SAW A RIGHT HANDED SHOOTER"

7 × 5 - 25 = 10 (T) · 8 × 11 - 19 = 69 (E) · 54 + 8 × 2 = 70 (S) · 9 × 10 - 22 = 68 (N) · 8 × 11 - 25 = 63 (W) · 8 × 6 - 2 = 46 (G) · 6 × 9 - 15 = 39 (I) · 6 × 7 - 16 = 26 (D) · 6 × 12 - 7 = 65 (O) · 4 + 2 × 5 = 14 (R) · 63 + 2 × 8 = 79 (A) · 51 + 8 × 3 = 75 (H)

Clue 3 (Multiplication facts (1-12)): "THE DEFENDER HEARD SQUEAKY SNEAKERS"

5 × 5 = 25 (T) · 6 × 3 = 18 (R) · 12 × 7 = 84 (Y) · 9 × 9 = 81 (E) · 11 × 11 = 121 (A) · 4 × 8 = 32 (Q) · 1 × 2 = 2 (D) · 6 × 1 = 6 (K) · 3 × 3 = 9 (N) · 7 × 2 = 14 (H) · 10 × 9 = 90 (U) · 10 × 12 = 120 (S) · 6 × 9 = 54 (F)

Clue 4 (Rounding): "EVIDENT DUST SHOWS BRAIDED CORNROWS"

Round 4,265 to the nearest hundred = 4300 (E) · Round 91 to the nearest ten = 90 (S) · Round 1,257 to the nearest hundred = 1300 (C) · Round 73 to the nearest ten = 70 (N) · Round 431 to the nearest ten = 430 (U) · Round 6,947 to the nearest thousand = 7000 (O) · Round 370 to the nearest ten = 370 (H) · Round 1,708 to the nearest hundred = 1700 (I) · Round 230 to the nearest ten = 230 (T) · Round 2,699 to the nearest thousand = 3000 (B) · Round 2,264 to the nearest hundred = 2300 (V) · Round 20 to the nearest ten = 20 (A) · Round 254 to the nearest hundred = 300 (D) · Round 499 to the nearest hundred = 500 (R) · Round 2,415 to the nearest thousand = 2000 (W)

Clue 5 (Fractions of a number): surviving statement is box 12 → Luka Doncic

1/8 of 88 = 11 · 1/10 of 20 = 2 · 2/10 of 20 = 4 · 1/2 of 6 = 3 · 7/8 of 8 = 7 · 2/4 of 20 = 10 · 2/10 of 5 = 1 · 4/6 of 12 = 8 · 1/2 of 12 = 6 · 5/10 of 10 = 5 · 4/8 of 18 = 9