The Mystery of the Missing Championship Trophy

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

Detective: _____ **Date:** _____

Right before the buzzer of the finals game, someone snuck into the coaches office and swapped the gold trophy for a shiny bronze bowling ball! The detective team must examine physical clues left around the court and locker room to narrow down the suspects.

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 whistle thief is _____

Possible suspects

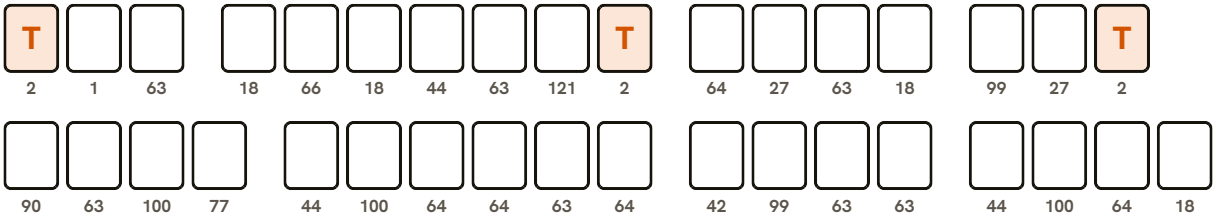
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	FAVORITE GEAR	SHOOTING HAND	HEADBAND COLOR	LOCKER ROOM SNACK
Candace	Crossover Dribble	Glow In Dark Laces	Left-Handed	Black Headband	Pretzels
Jayson	Stepback Jumper	Padded Knee Pads	Left-Handed	Red Headband	Energy Gel
Damian	Eurostep Drive	Glow In Dark Laces	Right-Handed	Blue Headband	Pretzels
Maya	Stepback Jumper	Neon Arm Sleeve	Right-Handed	Red Headband	Pretzels
Giannis	Skyhook Shot	Neon Arm Sleeve	Left-Handed	Black Headband	Orange Slices
Caitlin	Stepback Jumper	Glow In Dark Laces	Left-Handed	Black Headband	Pretzels
Aja	Eurostep Drive	Weighted Ankle Sleeves	Right-Handed	Red Headband	Orange Slices
Sabrina	Stepback Jumper	Weighted Ankle Sleeves	Right-Handed	Red Headband	Pretzels
Steph	Skyhook Shot	Glow In Dark Laces	Right-Handed	Black Headband	Orange Slices
Breanna	Stepback Jumper	Weighted Ankle Sleeves	Left-Handed	Red Headband	Energy Gel
Joel	Eurostep Drive	Glow In Dark Laces	Right-Handed	Red Headband	Pretzels
Luka	Stepback Jumper	Padded Knee Pads	Right-Handed	Red Headband	Energy Gel
Devin	Eurostep Drive	Glow In Dark Laces	Right-Handed	Blue Headband	Energy Gel
Kobe	No Look Pass	Neon Arm Sleeve	Left-Handed	Red Headband	Energy Gel
Anthony	No Look Pass	Weighted Ankle Sleeves	Right-Handed	Black Headband	Orange Slices
Allen	Crossover Dribble	Glow In Dark Laces	Right-Handed	Red Headband	Pretzels
Nikola	No Look Pass	Padded Knee Pads	Right-Handed	Red Headband	Pretzels
Shaq	No Look Pass	Custom Grip Tape	Right-Handed	Red Headband	Energy Gel
Larry	No Look Pass	Custom Grip Tape	Left-Handed	Red Headband	Pretzels
Magic	Crossover Dribble	Custom Grip Tape	Right-Handed	Blue Headband	Energy Gel
Diana	Crossover Dribble	Glow In Dark Laces	Right-Handed	Blue Headband	Pretzels

CLUE 1 Multiplication facts (1-12)

> The arena manager checked the concession stands where full boxes of souvenirs were being unloaded.

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



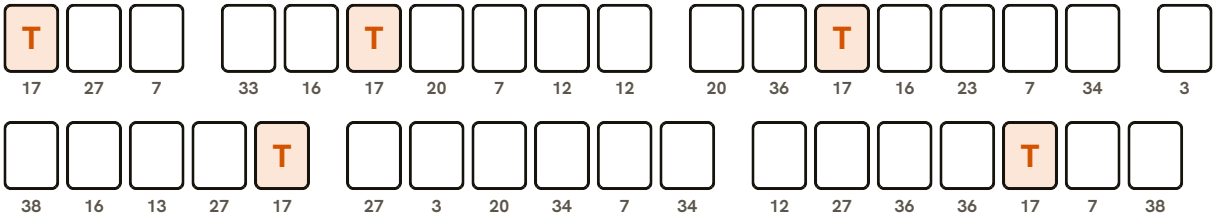
1 × 2 = ☐ → T	6 × 7 = ☐ → K	1 × 1 = ☐ → H	7 × 9 = ☐ → E
10 × 10 = ☐ → A	9 × 10 = ☐ → W	8 × 8 = ☐ → D	
11 × 11 = ☐ → C	6 × 3 = ☐ → S	11 × 4 = ☐ → P	
3 × 9 = ☐ → O	6 × 11 = ☐ → U	7 × 11 = ☐ → R	
11 × 9 = ☐ → N			

Scratch space:

CLUE 2 Fractions of a number

> The stat keeper analyzed the total shot chart to find what fraction of points came from downtown.

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



1/10 of 170 = ☐ → T

1/3 of 60 = ☐ → N

2/8 of 152 = ☐ → R

3/6 of 14 = ☐ → E

1/8 of 128 = ☐ → I

3/5 of 45 = ☐ → H

2/6 of 99 = ☐ → W

1/5 of 170 = ☐ → D

2/3 of 54 = ☐ → O

1/4 of 92 = ☐ → C

6/10 of 5 = ☐ → A

4/8 of 26 = ☐ → G

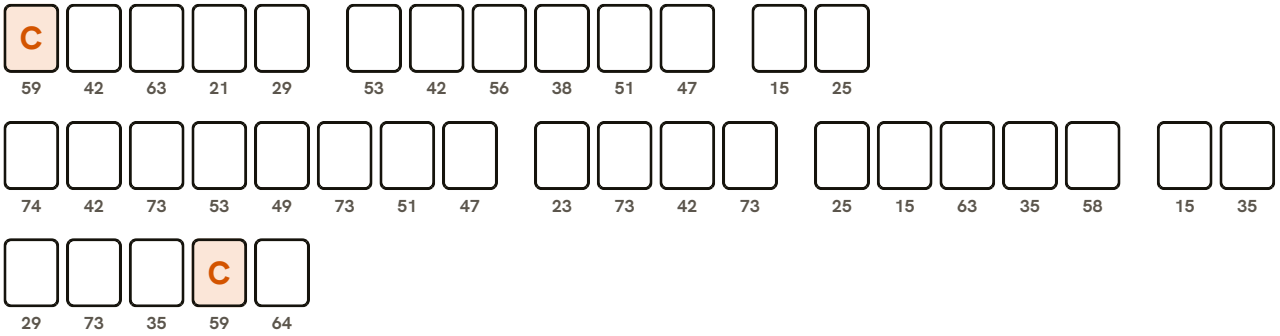
3/10 of 40 = ☐ → S

Scratch space:

CLUE 3 Order of operations

The scorekeeper calculated the bonus points using the multi-step tournament rule formula.

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



11 × 7 - 18 = ☐ → C

10 × 9 - 27 = ☐ → U

3 + 6 × 3 = ☐ → M

12 + 5 × 7 = ☐ → S

29 + 9 × 3 = ☐ → A

19 + 2 × 2 = ☐ → W

10 × 9 - 26 = ☐ → H

9 × 4 - 1 = ☐ → N

11 × 5 - 6 = ☐ → Z

22 + 8 × 2 = ☐ → I

15 + 3 × 9 = ☐ → R

35 + 3 × 6 = ☐ → T

6 × 8 - 19 = ☐ → B

53 + 3 × 7 = ☐ → P

48 + 5 × 5 = ☐ → E

6 × 11 - 15 = ☐ → L

9 × 2 - 3 = ☐ → O

8 × 10 - 22 = ☐ → D

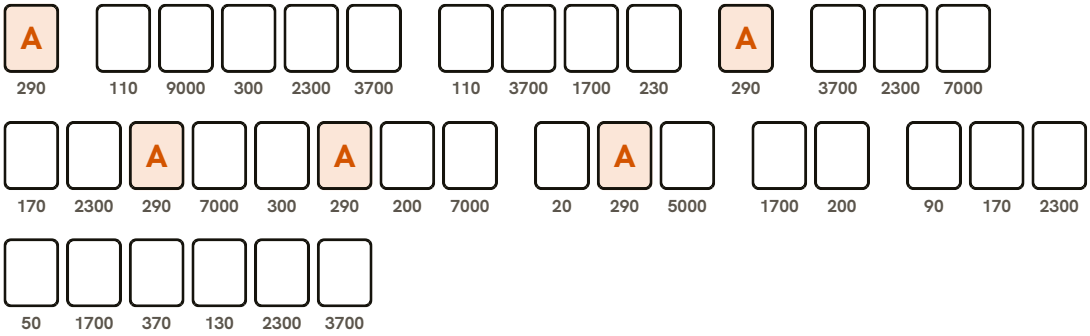
19 + 3 × 2 = ☐ → F

Scratch space:

CLUE 4 Rounding

The digital arena display showed the ball speed rounded to the nearest ten miles per hour.

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



Round 289 to the nearest ten ☐ → **A**

Round 4,756 to the nearest thousand ☐ → **S**

Round 374 to the nearest ten ☐ → **C**

Round 226 to the nearest ten ☐ → **M**

Round 48 to the nearest ten ☐ → **L**

Round 168 to the nearest ten ☐ → **H**

Round 188 to the nearest hundred ☐ → **N**

Round 106 to the nearest ten ☐ → **F**

Round 126 to the nearest ten ☐ → **K**

Round 3,713 to the nearest hundred ☐ → **R**

Round 9,362 to the nearest thousand ☐ → **I**

Round 2,299 to the nearest hundred ☐ → **E**

Round 303 to the nearest hundred ☐ → **B**

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

Round 91 to the nearest ten ☐ → **T**

Round 7,170 to the nearest thousand ☐ → **D**

Round 23 to the nearest ten ☐ → **W**

Scratch space:

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

> The equipment manager evenly split the practice basketballs among all warming-up drills.

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:

16 ÷ 2 = ☐	18 ÷ 9 = ☐	20 ÷ 5 = ☐	3 ÷ 1 = ☐	9 ÷ 1 = ☐
48 ÷ 4 = ☐	10 ÷ 1 = ☐	60 ÷ 10 = ☐	42 ÷ 6 = ☐	50 ÷ 10 = ☐
11 ÷ 1 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain dazzled defenders with a crossover dribble, then tied up their glow in dark laces.
2. The villain slid past defenders using a eurostep drive, then tied up their glow in dark laces.
3. The villain lofted a skyhook shot over the center, then adjusted their neon arm sleeve.
4. The villain sank a stepback jumper at the buzzer, then tightened their weighted ankle sleeves.
5. The villain faked out defenders with a no look pass, then tied up their glow in dark laces.
6. The villain dazzled defenders with a crossover dribble, then strapped on padded knee pads.
7. The villain faked out defenders with a no look pass, then wrapped the ball in custom grip tape.
8. The villain sank a stepback jumper at the buzzer, then adjusted their neon arm sleeve.
9. The villain lofted a skyhook shot over the center, then tightened their weighted ankle sleeves.
10. The villain slid past defenders using a eurostep drive, then wrapped the ball in custom grip tape.
11. The villain dazzled defenders with a crossover dribble, then tightened their weighted ankle sleeves.
12. The villain sank a stepback jumper at the buzzer, then wrapped the ball in custom grip tape.

TEACHER / PARENT

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Allen

Crossover Dribble · Glow In Dark Laces · Right-Handed · Red Headband · Pretzels

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SUSPECT DOES NOT WEAR PADDED KNEE PADS"

1 × 2 = 2 (T) · 6 × 7 = 42 (K) · 1 × 1 = 1 (H) · 7 × 9 = 63 (E) · 10 × 10 = 100 (A) · 9 × 10 = 90 (W) · 8 × 8 = 64 (D) · 11 × 11 = 121 (C) · 6 × 3 = 18 (S) · 11 × 4 = 44 (P) · 3 × 9 = 27 (O) · 6 × 11 = 66 (U) · 7 × 11 = 77 (R) · 11 × 9 = 99 (N)

Clue 2 (Fractions of a number): "THE WITNESS NOTICED A RIGHT HANDED SHOOTER"

1/10 of 170 = 17 (T) · 1/3 of 60 = 20 (N) · 2/8 of 152 = 38 (R) · 3/6 of 14 = 7 (E) · 1/8 of 128 = 16 (I) · 3/5 of 45 = 27 (H) · 2/6 of 99 = 33 (W) · 1/5 of 170 = 34 (D) · 2/3 of 54 = 36 (O) · 1/4 of 92 = 23 (C) · 6/10 of 5 = 3 (A) · 4/8 of 26 = 13 (G) · 3/10 of 40 = 12 (S)

Clue 3 (Order of operations): "CRUMB TRAILS OF PRETZELS WERE FOUND ON BENCH"

11 × 7 - 18 = 59 (C) · 10 × 9 - 27 = 63 (U) · 3 + 6 × 3 = 21 (M) · 12 + 5 × 7 = 47 (S) · 29 + 9 × 3 = 56 (A) · 19 + 2 × 2 = 23 (W) · 10 × 9 - 26 = 64 (H) · 9 × 4 - 1 = 35 (N) · 11 × 5 - 6 = 49 (Z) · 22 + 8 × 2 = 38 (I) · 15 + 3 × 9 = 42 (R) · 35 + 3 × 6 = 53 (T) · 6 × 8 - 19 = 29 (B) · 53 + 3 × 7 = 74 (P) · 48 + 5 × 5 = 73 (E) · 6 × 11 - 15 = 51 (L) · 9 × 2 - 3 = 15 (O) · 8 × 10 - 22 = 58 (D) · 19 + 3 × 2 = 25 (F)

Clue 4 (Rounding): "A FIBER FROM A RED HEADBAND WAS ON THE LOCKER"

Round 289 to the nearest ten = 290 (A) · Round 4,756 to the nearest thousand = 5000 (S) · Round 374 to the nearest ten = 370 (C) · Round 226 to the nearest ten = 230 (M) · Round 48 to the nearest ten = 50 (L) · Round 168 to the nearest ten = 170 (H) · Round 188 to the nearest hundred = 200 (N) · Round 106 to the nearest ten = 110 (F) · Round 126 to the nearest ten = 130 (K) · Round 3,713 to the nearest hundred = 3700 (R) · Round 9,362 to the nearest thousand = 9000 (I) · Round 2,299 to the nearest hundred = 2300 (E) · Round 303 to the nearest hundred = 300 (B) · Round 1,696 to the nearest hundred = 1700 (O) · Round 91 to the nearest ten = 90 (T) · Round 7,170 to the nearest thousand = 7000 (D) · Round 23 to the nearest ten = 20 (W)

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

16 ÷ 2 = 8 · 18 ÷ 9 = 2 · 20 ÷ 5 = 4 · 3 ÷ 1 = 3 · 9 ÷ 1 = 9 · 48 ÷ 4 = 12 · 10 ÷ 1 = 10 · 60 ÷ 10 = 6 · 42 ÷ 6 = 7 · 50 ÷ 10 = 5 · 11 ÷ 1 = 11