The Case of the Missing Championship Cup

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

Detective: _____ **Date:** _____

Right before the final whistle of the tournament, the golden trophy disappeared from Metro City Stadium! The stadium director called in top detectives to analyze evidence left on the pitch.

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 trophy thief is _____

Possible suspects

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

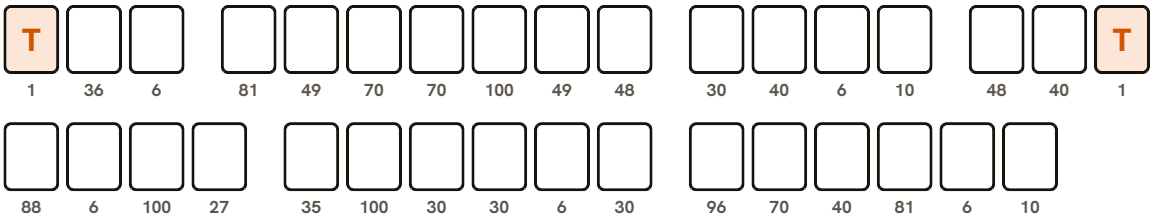
NAME	SIGNATURE MOVE	SPECIAL GEAR	SHOOTING FOOT	HAIRSTYLE	DISTRACTION FACTOR
Alexia Putellas	Curve Shot	GPS Tracking Vest	Right Footed Striker	Buzz Cut	Loud Whistle Blast
Alex Morgan	Slide Tackle	Golden Cleats	Left Footed Striker	Buzz Cut	Loud Whistle Blast
Bruno Fernandes	Bicycle Kick	Padded Gloves	Right Footed Striker	Spiky Cut	Bright Stadium Lights
Mohamed Salah	Bicycle Kick	GPS Tracking Vest	Right Footed Striker	Spiky Cut	Bright Stadium Lights
Son Heungmin	Speed Dribble	Neon Shin Guards	Left Footed Striker	Buzz Cut	Slippery Turf Mud
Harry Kane	High Header	Golden Cleats	Left Footed Striker	Buzz Cut	Loud Whistle Blast
Marcus Rashford	Slide Tackle	Neon Shin Guards	Left Footed Striker	Spiky Cut	Bright Stadium Lights
Sam Kerr	Curve Shot	Captain Armband	Left Footed Striker	Spiky Cut	Bright Stadium Lights
Bukayo Saka	Bicycle Kick	Neon Shin Guards	Left Footed Striker	Braided Hair	Loud Whistle Blast
Virgil van Dijk	Bicycle Kick	Golden Cleats	Left Footed Striker	Braided Hair	Slippery Turf Mud
Antoine Griezmann	Curve Shot	Captain Armband	Left Footed Striker	Spiky Cut	Loud Whistle Blast
Jamal Musiala	High Header	Padded Gloves	Left Footed Striker	Spiky Cut	Bright Stadium Lights
Robert Lewandowski	Slide Tackle	GPS Tracking Vest	Left Footed Striker	Buzz Cut	Bright Stadium Lights
Erling Haaland	Slide Tackle	GPS Tracking Vest	Left Footed Striker	Spiky Cut	Bright Stadium Lights
Aitana Bonmati	Speed Dribble	Captain Armband	Right Footed Striker	Buzz Cut	Loud Whistle Blast
Kevin De Bruyne	High Header	Padded Gloves	Right Footed Striker	Buzz Cut	Bright Stadium Lights
Luka Modric	Speed Dribble	GPS Tracking Vest	Left Footed Striker	Spiky Cut	Bright Stadium Lights
Neymar Jr	Slide Tackle	Padded Gloves	Left Footed Striker	Braided Hair	Slippery Turf Mud
Kylian Mbappe	Bicycle Kick	Neon Shin Guards	Right Footed Striker	Spiky Cut	Bright Stadium Lights
Pedri	High Header	Neon Shin Guards	Left Footed Striker	Braided Hair	Loud Whistle Blast
Lionel Messi	High Header	Captain Armband	Left Footed Striker	Spiky Cut	Loud Whistle Blast

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CLUE 1 Multiplication facts (1-12)

> Coach Taylor arranged training cones into equal rows across the pitch. Multiply to count the total cones and unlock the first clue note.

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



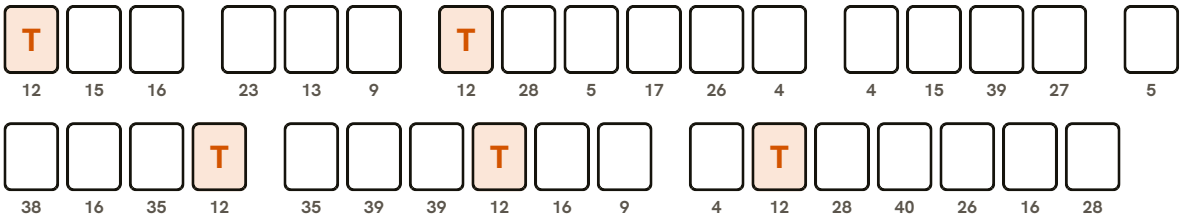
1 × 1 = ☐ → T	9 × 9 = ☐ → V	4 × 10 = ☐ → O
8 × 12 = ☐ → G	9 × 4 = ☐ → H	10 × 1 = ☐ → S
7 × 7 = ☐ → I	9 × 3 = ☐ → R	10 × 3 = ☐ → D
8 × 11 = ☐ → W	10 × 7 = ☐ → L	1 × 6 = ☐ → E
10 × 10 = ☐ → A	4 × 12 = ☐ → N	5 × 7 = ☐ → P

Scratch space:

CLUE 2 Fractions of a number

> The equipment manager checked the rack of match balls. Finding what fraction of the balls were inflated reveals the next witness statement.

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



1/2 of 24 = ☐ → T

8/10 of 5 = ☐ → S

2/3 of 39 = ☐ → K

5/6 of 42 = ☐ → F

7/8 of 32 = ☐ → R

1/5 of 45 = ☐ → D

1/3 of 69 = ☐ → M

2/10 of 200 = ☐ → I

3/6 of 76 = ☐ → L

2/6 of 48 = ☐ → E

2/10 of 135 = ☐ → W

1/4 of 156 = ☐ → O

2/10 of 65 = ☐ → U

1/10 of 150 = ☐ → H

4/8 of 34 = ☐ → C

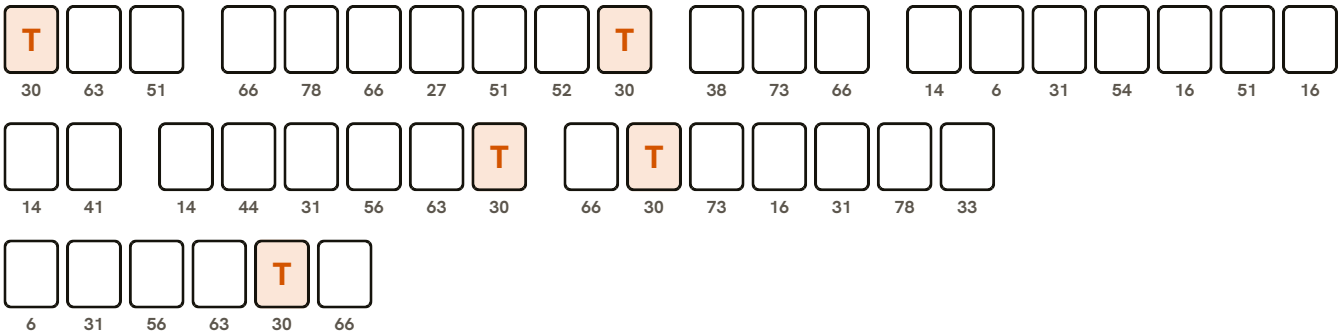
2/4 of 10 = ☐ → A

Scratch space:

CLUE 3 Order of operations

> The tactical analyst decoded a step by step strategy board. Work through the equation in the correct order to reveal the suspect detail.

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



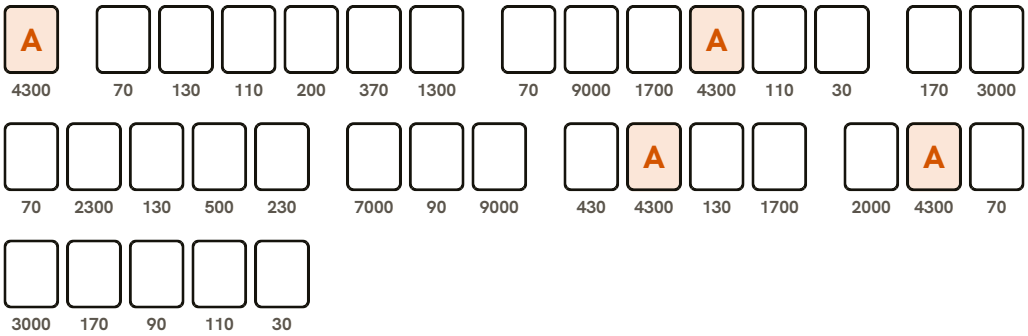
2 + 7 × 4 = ☐ → T	13 + 7 × 4 = ☐ → Y	19 + 6 × 2 = ☐ → I
3 + 8 × 3 = ☐ → P	12 × 5 - 16 = ☐ → R	8 × 4 - 18 = ☐ → B
7 × 12 - 21 = ☐ → H	20 + 4 × 9 = ☐ → G	36 + 2 × 9 = ☐ → N
36 + 2 × 8 = ☐ → C	3 × 8 - 8 = ☐ → D	35 + 2 × 8 = ☐ → E
34 + 4 × 8 = ☐ → S	9 × 9 - 3 = ☐ → U	22 + 4 × 4 = ☐ → W
2 + 2 × 2 = ☐ → L	19 + 6 × 9 = ☐ → A	6 × 7 - 9 = ☐ → M

Scratch space:

CLUE 4 Rounding

> The stadium scoreboard displayed estimated attendance numbers. Round the data to the nearest ten to decode the physical evidence.

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



Round 4,252 to the nearest hundred ☐ → **A**

Round 242 to the nearest hundred ☐ → **G**

Round 2,925 to the nearest thousand ☐ → **F**

Round 2,226 to the nearest thousand ☐ → **W**

Round 90 to the nearest ten ☐ → **U**

Round 29 to the nearest ten ☐ → **D**

Round 1,680 to the nearest hundred ☐ → **R**

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

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

Round 434 to the nearest ten ☐ → **H**

Round 9,484 to the nearest thousand ☐ → **T**

Round 477 to the nearest hundred ☐ → **K**

Round 73 to the nearest ten ☐ → **S**

Round 114 to the nearest ten ☐ → **N**

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

Round 1,251 to the nearest hundred ☐ → **E**

Round 2,285 to the nearest hundred ☐ → **P**

Round 6,976 to the nearest thousand ☐ → **C**

Round 128 to the nearest ten ☐ → **I**

Scratch space:

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

> The referee split practice drills evenly among all team squads. Divide the total equipment to catch the final clue about the suspect.

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:

2 ÷ 2 = ☐ | 8 ÷ 2 = ☐ | 99 ÷ 9 = ☐ | 15 ÷ 3 = ☐ | 12 ÷ 6 = ☐

36 ÷ 12 = ☐ | 48 ÷ 4 = ☐ | 108 ÷ 12 = ☐ | 36 ÷ 6 = ☐ | 72 ÷ 9 = ☐

84 ÷ 12 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain used speed dribble tactics to escape down the tunnel, then monitored stats with a gps tracking vest.
2. The villain executed a bicycle kick to knock down the trophy case, then flashed golden cleats across the grass.
3. The villain used speed dribble tactics to escape down the tunnel, then strapped on neon shin guards before sprinting.
4. The villain timed a slide tackle to swipe the championship cup, then strapped on neon shin guards before sprinting.
5. The villain executed a bicycle kick to knock down the trophy case, then monitored stats with a gps tracking vest.
6. The villain scored a high header to trigger the stadium alarm, then pulled on padded gloves to hide fingerprints.
7. The villain executed a bicycle kick to knock down the trophy case, then strapped on neon shin guards before sprinting.
8. The villain bent a curve shot past the security guard, then monitored stats with a gps tracking vest.
9. The villain timed a slide tackle to swipe the championship cup, then adjusted a captain armband while running.
10. The villain bent a curve shot past the security guard, then adjusted a captain armband while running.
11. The villain timed a slide tackle to swipe the championship cup, then monitored stats with a gps tracking vest.
12. The villain used speed dribble tactics to escape down the tunnel, then flashed golden cleats across the grass.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Cup

Culprit: Sam Kerr

Curve Shot · Captain Armband · Left Footed Striker · Spiky Cut · Bright Stadium Lights

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT WEAR PADDED GLOVES"

1 × 1 = 1 (T) · 9 × 9 = 81 (V) · 4 × 10 = 40 (O) · 8 × 12 = 96 (G) · 9 × 4 = 36 (H) · 10 × 1 = 10 (S) · 7 × 7 = 49 (I) · 9 × 3 = 27 (R) · 10 × 3 = 30 (D) · 8 × 11 = 88 (W) · 10 × 7 = 70 (L) · 1 × 6 = 6 (E) · 10 × 10 = 100 (A) · 4 × 12 = 48 (N) · 5 × 7 = 35 (P)

Clue 2 (Fractions of a number): "THE MUD TRACKS SHOW A LEFT FOOTED STRIKER"

1/2 of 24 = 12 (T) · 8/10 of 5 = 4 (S) · 2/3 of 39 = 26 (K) · 5/6 of 42 = 35 (F) · 7/8 of 32 = 28 (R) · 1/5 of 45 = 9 (D) · 1/3 of 69 = 23 (M) · 2/10 of 200 = 40 (I) · 3/6 of 76 = 38 (L) · 2/6 of 48 = 16 (E) · 2/10 of 135 = 27 (W) · 1/4 of 156 = 39 (O) · 2/10 of 65 = 13 (U) · 1/10 of 150 = 15 (H) · 4/8 of 34 = 17 (C) · 2/4 of 10 = 5 (A)

Clue 3 (Order of operations): "THE SUSPECT WAS BLINDED BY BRIGHT STADIUM LIGHTS"

2 + 7 × 4 = 30 (T) · 13 + 7 × 4 = 41 (Y) · 19 + 6 × 2 = 31 (I) · 3 + 8 × 3 = 27 (P) · 12 × 5 - 16 = 44 (R) · 8 × 4 - 18 = 14 (B) · 7 × 12 - 21 = 63 (H) · 20 + 4 × 9 = 56 (G) · 36 + 2 × 9 = 54 (N) · 36 + 2 × 8 = 52 (C) · 3 × 8 - 8 = 16 (D) · 35 + 2 × 8 = 51 (E) · 34 + 4 × 8 = 66 (S) · 9 × 9 - 3 = 78 (U) · 22 + 4 × 4 = 38 (W) · 2 + 2 × 2 = 6 (L) · 19 + 6 × 9 = 73 (A) · 6 × 7 - 9 = 33 (M)

Clue 4 (Rounding): "A SINGLE STRAND OF SPIKY CUT HAIR WAS FOUND"

Round 4,252 to the nearest hundred = 4300 (A) · Round 242 to the nearest hundred = 200 (G) · Round 2,925 to the nearest thousand = 3000 (F) · Round 2,226 to the nearest thousand = 2000 (W) · Round 90 to the nearest ten = 90 (U) · Round 29 to the nearest ten = 30 (D) · Round 1,680 to the nearest hundred = 1700 (R) · Round 168 to the nearest ten = 170 (O) · Round 374 to the nearest ten = 370 (L) · Round 434 to the nearest ten = 430 (H) · Round 9,484 to the nearest thousand = 9000 (T) · Round 477 to the nearest hundred = 500 (K) · Round 73 to the nearest ten = 70 (S) · Round 114 to the nearest ten = 110 (N) · Round 226 to the nearest ten = 230 (Y) · Round 1,251 to the nearest hundred = 1300 (E) · Round 2,285 to the nearest hundred = 2300 (P) · Round 6,976 to the nearest thousand = 7000 (C) · Round 128 to the nearest ten = 130 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Sam Kerr

2 ÷ 2 = 1 · 8 ÷ 2 = 4 · 99 ÷ 9 = 11 · 15 ÷ 3 = 5 · 12 ÷ 6 = 2 · 36 ÷ 12 = 3 · 48 ÷ 4 = 12 · 108 ÷ 12 = 9 · 36 ÷ 6 = 6 · 72 ÷ 9 = 8 · 84 ÷ 12 = 7