



The Cup Final Caper

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

Detective: _____ **Date:** _____

The World Cup final is tonight, but disaster has struck! Someone snuck onto the pitch and hid the legendary Golden Championship Trophy. The referee found a trail of muddy cleats leading back to the player locker rooms. Coach Ramirez needs your math skills to narrow down the suspect pool before kickoff!

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 stadium saboteur 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	PRE GAME RITUAL	HAIRSTYLE	GREATEST OBSTACLE
Achraf Hakimi	Hyper Speed Dash	Neon Cleats	Laces Left Boot First	Curly Dark Fade	Soggy Turf
Erling Haaland	Gravity Defying Header	Chrono Stopwatch	Laces Left Boot First	Spiky Buzz Cut	Bright Floodlights
Alphonso Davies	Tornado Dribble	Laser Visor	Laces Right Boot First	Spiky Buzz Cut	Soggy Turf
Son Heung-min	Sonic Strike Shot	Magnetic Gloves	Laces Right Boot First	Spiky Buzz Cut	Soggy Turf
Antoine Griezmann	Hyper Speed Dash	Chrono Stopwatch	Laces Left Boot First	Spiky Buzz Cut	Squeaky Whistle
Jude Bellingham	Phantom Pass	Chrono Stopwatch	Laces Left Boot First	Spiky Buzz Cut	Squeaky Whistle
Robert Lewandowski	Hyper Speed Dash	Neon Cleats	Laces Right Boot First	Curly Dark Fade	Soggy Turf
Kylian Mbappe	Hyper Speed Dash	Golden Shin Guards	Laces Right Boot First	Spiky Buzz Cut	Squeaky Whistle
Kevin De Bruyne	Sonic Strike Shot	Chrono Stopwatch	Laces Right Boot First	Curly Dark Fade	Bright Floodlights
Jamal Musiala	Tornado Dribble	Neon Cleats	Laces Right Boot First	Spiky Buzz Cut	Soggy Turf
Bukayo Saka	Phantom Pass	Magnetic Gloves	Laces Left Boot First	Swept Back Blonde	Bright Floodlights
Lionel Messi	Hyper Speed Dash	Laser Visor	Laces Right Boot First	Spiky Buzz Cut	Bright Floodlights
Pedri Gonzalez	Gravity Defying Header	Chrono Stopwatch	Laces Right Boot First	Swept Back Blonde	Bright Floodlights
Marcus Rashford	Tornado Dribble	Chrono Stopwatch	Laces Right Boot First	Spiky Buzz Cut	Bright Floodlights
Mohamed Salah	Tornado Dribble	Laser Visor	Laces Left Boot First	Spiky Buzz Cut	Soggy Turf
Guillermo Ochoa	Gravity Defying Header	Neon Cleats	Laces Left Boot First	Spiky Buzz Cut	Soggy Turf
Christian Pulisic	Tornado Dribble	Golden Shin Guards	Laces Left Boot First	Curly Dark Fade	Squeaky Whistle
Neymar Jr	Tornado Dribble	Laser Visor	Laces Right Boot First	Curly Dark Fade	Soggy Turf
Harry Kane	Phantom Pass	Neon Cleats	Laces Right Boot First	Spiky Buzz Cut	Soggy Turf
Cristiano Ronaldo	Phantom Pass	Golden Shin Guards	Laces Right Boot First	Spiky Buzz Cut	Soggy Turf
Alisson Becker	Hyper Speed Dash	Magnetic Gloves	Laces Right Boot First	Curly Dark Fade	Soggy Turf

CLUE 1
Multiplication facts (1-12)

Coach Ramirez counts the training cones set up in neat, equal rows. Multiplying the rows gives us a secret clue left on the tactical board.

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

T												T				
54	88	28	63	11	28	14	11	28	16	20	11	54	66	28	132	110
96	11	32	14	28	20	16	88	4	20	96	7	132	110	14	16	

$6 \times 9 = \square \rightarrow \boxed{\text{T}}$

$8 \times 12 = \square \rightarrow \boxed{\text{G}}$

$4 \times 8 = \square \rightarrow \boxed{\text{L}}$

$11 \times 1 = \square \rightarrow \boxed{\text{O}}$

$1 \times 7 = \square \rightarrow \boxed{\text{U}}$

$2 \times 7 = \square \rightarrow \boxed{\text{D}}$

$8 \times 2 = \square \rightarrow \boxed{\text{S}}$

$4 \times 1 = \square \rightarrow \boxed{\text{I}}$

$9 \times 7 = \square \rightarrow \boxed{\text{F}}$

$12 \times 11 = \square \rightarrow \boxed{\text{A}}$

$8 \times 11 = \square \rightarrow \boxed{\text{H}}$

$7 \times 4 = \square \rightarrow \boxed{\text{E}}$

$10 \times 2 = \square \rightarrow \boxed{\text{N}}$

$11 \times 10 = \square \rightarrow \boxed{\text{R}}$

$6 \times 11 = \square \rightarrow \boxed{\text{W}}$

Scratch space:

Fractions of a number

We look at the total supply of soccer balls in the bin. Finding the exact fraction of balls that are fully inflated reveals a hidden locker number.

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

The diagram consists of two rows of boxes. The top row has 18 boxes, and the bottom row has 10 boxes. Some boxes are shaded orange and contain the letter 'T', while others are white and contain numbers. The numbers are: 14, 17, 30, 26, 24, 26, 20, 30, 38, 14, 10, 25, 38, 30, 26, 14, 17, 30, 2, 6, 8, 17, 14, 32, 34, 34, 14, 9, 6, 2, 26, 14.

7/10 of 20 = $\rightarrow$ **T**

2/8 of 136 = → **0**

$\frac{1}{3}$ of 27 = $\rightarrow$ **F**

$\frac{1}{4}$ of 100 = $\rightarrow$ **A**

$\frac{1}{5}$ of 40 = $\rightarrow$ **G**

$$2/8 \text{ of } 68 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$\frac{1}{6} \text{ of } 180 = \boxed{} \rightarrow \mathbf{E}$$

4/8 of 76 = → **C**

$$4/6 \text{ of } 30 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$2/5 \text{ of } 80 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

$$1/6 \text{ of } 60 = \boxed{} \rightarrow \boxed{\text{L}}$$

4/6 of 9 = $\rightarrow$ **I**

$$\frac{1}{4} \text{ of } 104 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2/6 \text{ of } 6 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$\frac{3}{4}$ of 32 = $\rightarrow$ **U**

Scratch space:

CLUE 3
Order of operations

The stadium scoreboard is flashing a weird equation. Solving the steps in the correct mathematical order unlocks a camera feed of the hallway.

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

T										T							
70	58	40	54	76	9	50	79	35	70	35	73	73	9	48	77	40	63

							T			
80	6	73	48	21	21	6	70	76	79	46

$25 + 5 \times 9 = \square \rightarrow \boxed{\text{T}}$

$9 \times 9 - 18 = \square \rightarrow \boxed{\text{D}}$

$10 \times 8 - 7 = \square \rightarrow \boxed{\text{S}}$

$9 \times 6 - 6 = \square \rightarrow \boxed{\text{O}}$

$10 \times 10 - 20 = \square \rightarrow \boxed{\text{B}}$

$6 \times 4 - 3 = \square \rightarrow \boxed{\text{G}}$

$22 + 4 \times 6 = \square \rightarrow \boxed{\text{F}}$

$26 + 4 \times 6 = \square \rightarrow \boxed{\text{P}}$

$8 \times 10 - 3 = \square \rightarrow \boxed{\text{W}}$

$34 + 6 \times 7 = \square \rightarrow \boxed{\text{U}}$

$5 \times 11 - 15 = \square \rightarrow \boxed{\text{E}}$

$10 \times 6 - 6 = \square \rightarrow \boxed{\text{C}}$

$58 + 3 \times 7 = \square \rightarrow \boxed{\text{R}}$

$10 \times 6 - 2 = \square \rightarrow \boxed{\text{H}}$

$7 \times 5 - 29 = \square \rightarrow \boxed{\text{Y}}$

$17 + 9 \times 2 = \square \rightarrow \boxed{\text{I}}$

$3 \times 10 - 21 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4 Rounding

The stadium security gates recorded the official attendance, but the digital screen only displays the number rounded to the nearest thousand. Use this rounded value to unlock the locker room locker.

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

T																		
50	300	9000	110	430	170	1700	700	1700	70	300	1700	3000	1700	3000	1100	2000	370	70
7000	430	500	500	90	430	50												

Round 52 to the nearest ten → **T**

Round 89 to the nearest ten → **C**

Round 8,520 to the nearest thousand → **E**

Round 170 to the nearest ten → **N**

Round 1,735 to the nearest hundred → **A**

Round 300 to the nearest hundred → **H**

Round 6,780 to the nearest thousand → **B**

Round 491 to the nearest hundred → **Z**

Round 431 to the nearest ten → **U**

Round 366 to the nearest ten → **K**

Round 3,031 to the nearest thousand → **S**

Round 66 to the nearest ten → **Y**

Round 107 to the nearest ten → **R**

Round 2,306 to the nearest thousand → **I**

Round 1,139 to the nearest hundred → **P**

Round 720 to the nearest hundred → **W**

Scratch space:

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

A box of custom energy drinks must be divided equally among the active squad members. The remainder of the drinks points us straight to the final piece of evidence.

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:

$42 \div 7 = \boxed{}$

$40 \div 4 = \boxed{}$

$42 \div 6 = \boxed{}$

$80 \div 10 = \boxed{}$

$10 \div 2 = \boxed{}$

$10 \div 5 = \boxed{}$

$11 \div 1 = \boxed{}$

$6 \div 6 = \boxed{}$

$30 \div 10 = \boxed{}$

$48 \div 4 = \boxed{}$

$99 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain executes a phantom pass, then clicks a chrono stopwatch.
2. The villain wins a gravity defying header, then adjusts their laser visor.
3. The villain wins a gravity defying header, then clicks a chrono stopwatch.
4. The villain unleashes a sonic strike shot, then tightens their magnetic gloves.
5. The villain activates a hyper speed dash, then adjusts their laser visor.
6. The villain performs a tornado dribble, then flashes their neon cleats.
7. The villain executes a phantom pass, then flashes their neon cleats.
8. The villain activates a hyper speed dash, then flashes their neon cleats.
9. The villain wins a gravity defying header, then flashes their neon cleats.
10. The villain performs a tornado dribble, then adjusts their laser visor.
11. The villain unleashes a sonic strike shot, then adjusts their laser visor.
12. The villain unleashes a sonic strike shot, then straps on golden shin guards.

Answer Key

The Cup Final Caper

Culprit: Son Heung-min

Sonic Strike Shot · Magnetic Gloves · Laces Right Boot First · Spiky Buzz Cut · Soggy Turf

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE FOE DOES NOT WEAR GOLDEN SHIN GUARDS"

$6 \times 9 = 54$ (T) · $8 \times 12 = 96$ (G) · $4 \times 8 = 32$ (L) · $11 \times 1 = 11$ (O) · $1 \times 7 = 7$ (U) · $2 \times 7 = 14$ (D) · $8 \times 2 = 16$ (S) · $4 \times 1 = 4$ (I) · $9 \times 7 = 63$ (F) · $12 \times 11 = 132$ (A) · $8 \times 11 = 88$ (H) · $7 \times 4 = 28$ (E) · $10 \times 2 = 20$ (N) · $11 \times 10 = 110$ (R) · $6 \times 11 = 66$ (W)

Clue 2 (Fractions of a number): "THE SUSPECT LACES THE RIGHT BOOT FIRST"

$7/10$ of 20 = 14 (T) · $2/8$ of 136 = 34 (O) · $1/3$ of 27 = 9 (F) · $1/4$ of 100 = 25 (A) · $1/5$ of 40 = 8 (G) · $2/8$ of 68 = 17 (H) · $1/6$ of 180 = 30 (E) · $4/8$ of 76 = 38 (C) · $4/6$ of 30 = 20 (P) · $2/5$ of 80 = 32 (B) · $1/6$ of 60 = 10 (L) · $4/6$ of 9 = 6 (I) · $1/4$ of 104 = 26 (S) · $2/6$ of 6 = 2 (R) · $3/4$ of 32 = 24 (U)

Clue 3 (Order of operations): "THE CULPRIT IS SLOWED BY SOGGY TURF"

$25 + 5 \times 9 = 70$ (T) · $9 \times 9 - 18 = 63$ (D) · $10 \times 8 - 7 = 73$ (S) · $9 \times 6 - 6 = 48$ (O) · $10 \times 10 - 20 = 80$ (B) · $6 \times 4 - 3 = 21$ (G) · $22 + 4 \times 6 = 46$ (F) · $26 + 4 \times 6 = 50$ (P) · $8 \times 10 - 3 = 77$ (W) · $34 + 6 \times 7 = 76$ (U) · $5 \times 11 - 15 = 40$ (E) · $10 \times 6 - 6 = 54$ (C) · $58 + 3 \times 7 = 79$ (R) · $10 \times 6 - 2 = 58$ (H) · $7 \times 5 - 29 = 6$ (Y) · $17 + 9 \times 2 = 35$ (I) · $3 \times 10 - 21 = 9$ (L)

Clue 4 (Rounding): "THE RUNAWAY HAS A SPIKY BUZZ CUT"

Round 52 to the nearest ten = 50 (T) · Round 89 to the nearest ten = 90 (C) · Round 8,520 to the nearest thousand = 9000 (E) · Round 170 to the nearest ten = 170 (N) · Round 1,735 to the nearest hundred = 1700 (A) · Round 300 to the nearest hundred = 300 (H) · Round 6,780 to the nearest thousand = 7000 (B) · Round 491 to the nearest hundred = 500 (Z) · Round 431 to the nearest ten = 430 (U) · Round 366 to the nearest ten = 370 (K) · Round 3,031 to the nearest thousand = 3000 (S) · Round 66 to the nearest ten = 70 (Y) · Round 107 to the nearest ten = 110 (R) · Round 2,306 to the nearest thousand = 2000 (I) · Round 1,139 to the nearest hundred = 1100 (P) · Round 720 to the nearest hundred = 700 (W)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Son Heung-min

$42 \div 7 = 6$ · $40 \div 4 = 10$ · $42 \div 6 = 7$ · $80 \div 10 = 8$ · $10 \div 2 = 5$ · $10 \div 5 = 2$ · $11 \div 1 = 11$ · $6 \div 6 = 1$ · $30 \div 10 = 3$ · $48 \div 4 = 12$ · $99 \div 11 = 9$