



The Championship Cup Heist

Grade 5 math · Fractions of a number, Word problems, Bar models, Order of operations, Division · Reading level grades 5-6

Detective: _____ Date: _____

The golden Championship Trophy has been snatched from the display case right before the big match! Someone used professional soccer skills to bypass the laser security grid. We have a list of twenty-four star players who were in the stadium for warm-ups. Detective, we need to analyze the clues and find the culprit.

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 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	LUCKY GEAR	PREFERS SHOOTING	HEADBAND COLOR	IN-GAME DISTRACTION
Bukayo Saka	Bicycle Kick	Grip Gloves	Left Footed	White Headband	Chanting Crowds
Toni Kroos	Bicycle Kick	Grip Gloves	Right Footed	Red Headband	Loud Whistle
Manuel Neuer	Dribbling Maze	GPS Tracker Vest	Right Footed	Red Headband	Squeaky Mascot
Neymar Jr	Power Header	GPS Tracker Vest	Left Footed	White Headband	Squeaky Mascot
Luka Modric	Knuckleball Free Kick	Thermal Water Bottle	Right Footed	White Headband	Squeaky Mascot
Marcus Rashford	Power Header	Gold Captain Band	Left Footed	White Headband	Chanting Crowds
Antoine Griezmann	Dribbling Maze	Gold Captain Band	Right Footed	White Headband	Squeaky Mascot
Heung-Min Son	Bicycle Kick	Gold Captain Band	Right Footed	White Headband	Chanting Crowds
Erling Haaland	Knuckleball Free Kick	Gold Captain Band	Right Footed	Red Headband	Squeaky Mascot
Mohamed Salah	Dribbling Maze	Grip Gloves	Left Footed	White Headband	Chanting Crowds
Pablo Gavi	Dribbling Maze	Thermal Water Bottle	Right Footed	Red Headband	Loud Whistle
Alisson Becker	Dribbling Maze	GPS Tracker Vest	Left Footed	White Headband	Loud Whistle
Jamal Musiala	Knuckleball Free Kick	GPS Tracker Vest	Right Footed	White Headband	Chanting Crowds
Vinicius Jr	Dribbling Maze	GPS Tracker Vest	Left Footed	White Headband	Chanting Crowds
Pedri Gonzalez	Dribbling Maze	Thermal Water Bottle	Left Footed	White Headband	Chanting Crowds
Kevin De Bruyne	Dribbling Maze	Grip Gloves	Right Footed	Blue Headband	Squeaky Mascot
Robert Lewandowski	Dribbling Maze	Thermal Water Bottle	Left Footed	Blue Headband	Loud Whistle
Jude Bellingham	Power Header	GPS Tracker Vest	Left Footed	Red Headband	Chanting Crowds
Cristiano Ronaldo	Bicycle Kick	Neon Cleats	Left Footed	Red Headband	Chanting Crowds
Virgil van Dijk	Knuckleball Free Kick	Thermal Water Bottle	Left Footed	White Headband	Loud Whistle
Karim Benzema	Bicycle Kick	Neon Cleats	Right Footed	White Headband	Chanting Crowds

CLUE 1

Fractions of a number

To analyze the training field layouts, we compare the lengths of practice cones and agility ladders using bar models.

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

$\frac{1}{2}$ of 78 = $\rightarrow$ **T**

$\frac{1}{3}$ of 12 = $\rightarrow$ **U**

$$\frac{3}{4} \text{ of } 36 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2/6 \text{ of } 90 = \boxed{} \rightarrow \boxed{\text{S}}$$

$\frac{1}{3}$ of 33 = $\rightarrow$ **B**

$\frac{1}{4}$ of 128 = $\rightarrow$ **A**

$$2/10 \text{ of } 190 = \boxed{} \rightarrow \boxed{0}$$

$$2/8 \text{ of } 88 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$\frac{1}{8} \text{ of } 96 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$2/5 \text{ of } 70 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2/10 \text{ of } 25 = \boxed{} \rightarrow \boxed{\text{R}}$$

5/10 of 34 = → **E**

$2/4$ of 16 = $\rightarrow$ **N**

$$1/10 \text{ of } 160 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$2/3 \text{ of } 3 = \boxed{} \rightarrow \boxed{\text{M}}$$

Scratch space:

CLUE 2

Word problems

The equipment manager needs to calculate how many spare soccer balls and practice bibs are left in the locker room crates.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L									
---	--	--	--	--	--	--	--	--	--

.

109

11

87

55

87

65

65

55

11

38

Coach found 91 soccer balls yesterday and 18 more today. How many soccer balls in all?

Answer: → **L**

There were 113 practice bibs. 26 were used up. How many practice bibs are left?

Answer: → **F**

Coach lined up 5 rows of 11 practice bibs. How many practice bibs in all?

Answer: → **T**

Coach found 7 practice bibs yesterday and 58 more today. How many practice bibs in all?

Answer: → **O**

Coach found 3 agility cones yesterday and 8 more today. How many agility cones in all?

Answer: → **E**

Coach found 13 water bottles yesterday and 25 more today. How many water bottles in all?

Answer: → **D**

Scratch space:

CLUE 3

Bar model word problems

We need to find what fraction of the stadium lights are currently switched on to illuminate the dark corner near the heist scene.

Draw a bar model to solve each word problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

C C R O W D S .

10 42 124 71 89 53 71 62 10

Coach has 40 water bottles, packed 4 to a bag. How many bags can be filled?

draw a bar model

Answer: → C

Coach shares 178 water bottles equally among 2 teams. How many water bottles does each team get?

draw a bar model

Answer: → T

The red team has 76 practice bibs and the blue team has 23 practice bibs. How many more practice bibs does the red team have?

draw a bar model

Answer: → I

There were 142 practice bibs in all. 18 practice bibs were used. How many practice bibs are left?

draw a bar model

Answer: → A

Coach shares 213 soccer balls equally among 3 teams. How many soccer balls does each team get?

draw a bar model

Answer: → N

The red team has 55 soccer balls and the blue team has 13 soccer balls. How many more soccer balls does the red team have?

draw a bar model

Answer: → H

One group collected 9 agility cones and another group collected 53 agility cones. How many agility cones in all?

draw a bar model

Answer: → G

CLUE 4

Order of operations

The coach left a secret training formula on the whiteboard, requiring us to solve the steps in the correct mathematical order.

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

A								A			A		
52	28	63	36	25	78	63	78	52	50	68	52	13	50
		A											
46	13	52	71	71	78	50	7	13	25	63	78	13	78

$11 \times 6 - 14 = \square \rightarrow \text{A}$

$6 \times 5 - 17 = \square \rightarrow \text{N}$

$9 \times 4 - 8 = \square \rightarrow \text{W}$

$9 \times 5 - 20 = \square \rightarrow \text{T}$

$44 + 4 \times 6 = \square \rightarrow \text{B}$

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

$53 + 5 \times 5 = \square \rightarrow \text{E}$

$28 + 2 \times 4 = \square \rightarrow \text{I}$

$7 \times 10 - 20 = \square \rightarrow \text{D}$

$53 + 6 \times 3 = \square \rightarrow \text{G}$

$1 + 3 \times 2 = \square \rightarrow \text{O}$

$48 + 5 \times 3 = \square \rightarrow \text{H}$

Scratch space:

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

We divide the energy drinks equally among the tournament defense squads to see who was active during the security blackout.

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:

$50 \div 10 = \boxed{}$

$24 \div 12 = \boxed{}$

$27 \div 9 = \boxed{}$

$40 \div 4 = \boxed{}$

$12 \div 2 = \boxed{}$

$72 \div 9 = \boxed{}$

$16 \div 4 = \boxed{}$

$5 \div 5 = \boxed{}$

$84 \div 12 = \boxed{}$

$60 \div 5 = \boxed{}$

$54 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain weaves through a dribbling maze, then sipping from a thermal water bottle.
2. The villain weaves through a dribbling maze, then checking the gps tracker vest.
3. The villain weaves through a dribbling maze, then tightening the grip gloves.
4. The villain blasts a knuckleball free kick, then sipping from a thermal water bottle.
5. The villain scores with a power header, then adjusting the gold captain band.
6. The villain executes a flawless bicycle kick, then sipping from a thermal water bottle.
7. The villain scores with a power header, then showing off those neon cleats.
8. The villain slips past with a nutmeg pass, then adjusting the gold captain band.
9. The villain blasts a knuckleball free kick, then adjusting the gold captain band.
10. The villain weaves through a dribbling maze, then adjusting the gold captain band.
11. The villain executes a flawless bicycle kick, then tightening the grip gloves.
12. The villain slips past with a nutmeg pass, then checking the gps tracker vest.

Answer Key

The Championship Cup Heist

Culprit: Bukayo Saka

Bicycle Kick · Grip Gloves · Left Footed · White Headband · Chanting Crowds

Trail: Start 21 → Clue 1 16 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE THIEF DOES NOT USE A THERMAL BOTTLE"

$\frac{1}{2}$ of 78 = 39 (T) · $\frac{1}{3}$ of 12 = 4 (U) · $\frac{3}{4}$ of 36 = 27 (I) · $\frac{2}{6}$ of 90 = 30 (S) · $\frac{1}{3}$ of 33 = 11 (B) · $\frac{1}{4}$ of 128 = 32 (A) · $\frac{2}{10}$ of 190 = 38 (O) · $\frac{2}{8}$ of 88 = 22 (L) · $\frac{1}{8}$ of 96 = 12 (F) · $\frac{2}{5}$ of 70 = 28 (H) · $\frac{2}{10}$ of 25 = 5 (R) · $\frac{5}{10}$ of 34 = 17 (E) · $\frac{2}{4}$ of 16 = 8 (N) · $\frac{1}{10}$ of 160 = 16 (D) · $\frac{2}{3}$ of 3 = 2 (M)

Clue 2 (Word problems): "LEFT FOOTED"

Coach found 91 soccer balls yesterday and 18 more today. How many soccer balls in all? = 109 (L) · There were 113 practice bibs. 26 were used up. How many practice bibs are left? = 87 (F) · Coach lined up 5 rows of 11 practice bibs. How many practice bibs in all? = 55 (T) · Coach found 7 practice bibs yesterday and 58 more today. How many practice bibs in all? = 65 (O) · Coach found 3 agility cones yesterday and 8 more today. How many agility cones in all? = 11 (E) · Coach found 13 water bottles yesterday and 25 more today. How many water bottles in all? = 38 (D)

Clue 3 (Bar model word problems): "CHANTING CROWDS"

Coach has 40 water bottles, packed 4 to a bag. How many bags can be filled? = 10 (C) · Coach shares 178 water bottles equally among 2 teams. How many water bottles does each team get? = 89 (T) · The red team has 76 practice bibs and the blue team has 23 practice bibs. How many more practice bibs does the red team have? = 53 (I) · There were 142 practice bibs in all. 18 practice bibs were used. How many practice bibs are left? = 124 (A) · Coach shares 213 soccer balls equally among 3 teams. How many soccer balls does each team get? = 71 (N) · The red team has 55 soccer balls and the blue team has 13 soccer balls. How many more soccer balls does the red team have? = 42 (H) · One group collected 9 agility cones and another group collected 53 agility cones. How many agility cones in all? = 62 (G)

Clue 4 (Order of operations): "A WHITE HEADBAND SNAGGED ON THE NET"

$11 \times 6 - 14 = 52$ (A) · $6 \times 5 - 17 = 13$ (N) · $9 \times 4 - 8 = 28$ (W) · $9 \times 5 - 20 = 25$ (T) · $44 + 4 \times 6 = 68$ (B) · $7 \times 8 - 10 = 46$ (S) · $53 + 5 \times 5 = 78$ (E) · $28 + 2 \times 4 = 36$ (I) · $7 \times 10 - 20 = 50$ (D) · $53 + 6 \times 3 = 71$ (G) · $1 + 3 \times 2 = 7$ (O) · $48 + 5 \times 3 = 63$ (H)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Bukayo Saka

$50 \div 10 = 5$ · $24 \div 12 = 2$ · $27 \div 9 = 3$ · $40 \div 4 = 10$ · $12 \div 2 = 6$ · $72 \div 9 = 8$ · $16 \div 4 = 4$ · $5 \div 5 = 1$ · $84 \div 12 = 7$ · $60 \div 5 = 12$ · $54 \div 6 = 9$