



The Golden Goal Heist

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

Detective: _____ **Date:** _____

Just hours before the grand final match, the golden championship trophy was snatched from the locked trophy case! The security guard spotted a shadowy figure in a professional uniform escaping onto the pitch. We must analyze the physical clues left on the field to figure out which star player is 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 Sticker Bandit 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	FAVORED KICKING FOOT	HAIR STYLE	MAIN OBSTACLE
Jude Bellingham	trivela pass	glowing tracker	right-footed kicker	neon green dye	muddy puddles
Harry Kane	trivela pass	neon shinguards	right-footed kicker	curly red hair	bright floodlights
Kylian Mbappe	diving header	golden boots	right-footed kicker	neon green dye	bright floodlights
Bruno Fernandes	trivela pass	glowing tracker	left-footed kicker	spiky black hair	bright floodlights
Lionel Messi	bicycle kick	neon shinguards	left-footed kicker	neon green dye	squeaky turf
Megan Rapinoe	trivela pass	neon shinguards	left-footed kicker	spiky black hair	squeaky turf
Erling Haaland	rainbow flick	glowing tracker	right-footed kicker	neon green dye	squeaky turf
Neymar Jr	rainbow flick	glowing tracker	left-footed kicker	spiky black hair	squeaky turf
Mohamed Salah	rainbow flick	neon shinguards	right-footed kicker	neon green dye	bright floodlights
Antoine Griezmann	trivela pass	golden boots	left-footed kicker	neon green dye	squeaky turf
Kevin De Bruyne	knuckleball shot	smart watch	right-footed kicker	neon green dye	bright floodlights
Luka Modric	knuckleball shot	glowing tracker	left-footed kicker	spiky black hair	muddy puddles
Marcus Rashford	diving header	smart watch	right-footed kicker	curly red hair	bright floodlights
Sam Kerr	bicycle kick	neon shinguards	right-footed kicker	neon green dye	bright floodlights
Robert Lewandowski	diving header	GPS headband	right-footed kicker	spiky black hair	bright floodlights
Son Heung-min	bicycle kick	neon shinguards	left-footed kicker	curly red hair	bright floodlights
Cristiano Ronaldo	rainbow flick	neon shinguards	left-footed kicker	neon green dye	bright floodlights
Luis Suarez	knuckleball shot	neon shinguards	right-footed kicker	spiky black hair	squeaky turf
Marta Vieira	bicycle kick	golden boots	left-footed kicker	spiky black hair	muddy puddles
Bukayo Saka	rainbow flick	glowing tracker	right-footed kicker	neon green dye	bright floodlights
Virgil van Dijk	bicycle kick	glowing tracker	left-footed kicker	neon green dye	muddy puddles

CLUE 1
Fractions of a number

The stadium janitor found some scrap paper in the locker room. It showed the total number of soccer balls, but only a fraction of them were marked with a secret clue.

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

T									T								T
17	11	36	20	35	20	13	36	37	17	38	39	36	20	26	39	17	

									T			T		
15	36	23	9	23	20	29	23	9	17	15	23	17	37	11

$1/6 \text{ of } 102 = \square \rightarrow \text{ **T** }$

$4/6 \text{ of } 30 = \square \rightarrow \text{ **S** }$

$1/3 \text{ of } 69 = \square \rightarrow \text{ **A** }$

$5/10 \text{ of } 22 = \square \rightarrow \text{ **H** }$

$2/5 \text{ of } 90 = \square \rightarrow \text{ **E** }$

$3/6 \text{ of } 76 = \square \rightarrow \text{ **D** }$

$5/10 \text{ of } 52 = \square \rightarrow \text{ **N** }$

$1/8 \text{ of } 72 = \square \rightarrow \text{ **R** }$

$6/8 \text{ of } 52 = \square \rightarrow \text{ **O** }$

$2/10 \text{ of } 75 = \square \rightarrow \text{ **W** }$

$1/4 \text{ of } 148 = \square \rightarrow \text{ **C** }$

$2/8 \text{ of } 116 = \square \rightarrow \text{ **M** }$

$1/2 \text{ of } 26 = \square \rightarrow \text{ **P** }$

$7/8 \text{ of } 40 = \square \rightarrow \text{ **U** }$

Scratch space:

CLUE 2

To unlock the security camera footage, you must solve the digital combination lock on the door. Follow the strict order of operations to calculate the correct sequence.

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

[illegible]

$$35 + 5 \times 6 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$51 + 5 \times 4 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$10 + 8 \times 4 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$10 \times 5 - 14 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$10 \times 10^{-21} = \boxed{} \rightarrow$$

$$21 + 4 \times 2 = \boxed{} \rightarrow \boxed{}$$

$$18 + 4 \times 2 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$6 \times 5 - 18 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$11 \times 5 - 5 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$5 \times 9 - 22 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$10 + 3 \times 2 = \boxed{} \rightarrow \boxed{0}$$

$$53 + 2 \times 8 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$45 + 2 \times 3 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$6 + 5 \times 5 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$5 \times 10 - 4 = \boxed{} \rightarrow \boxed{\text{F}}$$

$11 \times 9 - 24 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$6 \times 11 - 4 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

The team's water bottles are packed in equal rows inside the cooler. Multiplying these rows together reveals the code to open the suspect's gym bag.

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

T										
54	72	48	14	6	15	99	90	81	14	

									T								
63	6	8	8	32	6	90	14	72	54	56	28	6	90	81	32	48	32

T			T					
54	72	48	54	72	90	48	63	

$9 \times 6 = \square \rightarrow$ T	$4 \times 2 = \square \rightarrow$ O	$9 \times 10 = \square \rightarrow$ I	$7 \times 4 = \square \rightarrow$ B
$8 \times 7 = \square \rightarrow$ S	$8 \times 4 = \square \rightarrow$ D	$9 \times 8 = \square \rightarrow$ H	$11 \times 9 = \square \rightarrow$ R
$6 \times 1 = \square \rightarrow$ L	$7 \times 2 = \square \rightarrow$ G	$3 \times 5 = \square \rightarrow$ A	$9 \times 7 = \square \rightarrow$ F
$9 \times 9 = \square \rightarrow$ N	$6 \times 8 = \square \rightarrow$ E		

Scratch space:

CLUE 4 Rounding

The electronic radar captured the speed of the runner fleeing the scene, but the display only shows speeds rounded to the nearest whole number.

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

N			N					N									
370	9000	3000	370	900	2900	9000	9000	370	290	700	70	2900	30	110	9000		
230	170	1100	30	900	9000	30	130	290	9000	130	3000	90	9000	2000	230		

Round 368 to the nearest ten → **N**

Round 8,581 to the nearest thousand → **E**

Round 67 to the nearest ten → **I**

Round 2,909 to the nearest hundred → **R**

Round 1,121 to the nearest hundred → **U**

Round 126 to the nearest ten → **T**

Round 29 to the nearest ten → **D**

Round 1,810 to the nearest thousand → **L**

Round 906 to the nearest hundred → **G**

Round 113 to the nearest ten → **Y**

Round 172 to the nearest ten → **M**

Round 2,927 to the nearest thousand → **O**

Round 290 to the nearest ten → **H**

Round 88 to the nearest ten → **W**

Round 668 to the nearest hundred → **A**

Round 227 to the nearest ten → **S**

Scratch space:

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

The coach needs to distribute a crate of practice cones equally among the training squads. The remaining leftover cones point us to the final clue.

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:

$33 \div 3 = \boxed{}$

$4 \div 4 = \boxed{}$

$60 \div 6 = \boxed{}$

$60 \div 10 = \boxed{}$

$24 \div 2 = \boxed{}$

$8 \div 2 = \boxed{}$

$6 \div 3 = \boxed{}$

$81 \div 9 = \boxed{}$

$42 \div 6 = \boxed{}$

$6 \div 2 = \boxed{}$

$10 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain does a rapid rainbow flick over the security gate, then drops a reflective neon shinguard on the grass.
2. The villain executes a diving header to grab the keys, then loses a GPS headband near the corner flag.
3. The villain unleashes a trivela pass to slide the trophy through the fence, then loses a GPS headband near the corner flag.
4. The villain fires a knuckleball shot to smash the locker room window, then loses a GPS headband near the corner flag.
5. The villain does a rapid rainbow flick over the security gate, then leaves behind a trail of golden boot polish.
6. The villain fires a knuckleball shot to smash the locker room window, then accidentally syncs their smart watch to the stadium speaker.
7. The villain unleashes a trivela pass to slide the trophy through the fence, then blinks in the dark with a glowing tracker.
8. The villain executes a diving header to grab the keys, then leaves behind a trail of golden boot polish.
9. The villain unleashes a trivela pass to slide the trophy through the fence, then accidentally syncs their smart watch to the stadium speaker.
10. The villain does a rapid rainbow flick over the security gate, then blinks in the dark with a glowing tracker.
11. The villain performs a bicycle kick to knock over the trophy display, then drops a reflective neon shinguard on the grass.
12. The villain performs a bicycle kick to knock over the trophy display, then leaves behind a trail of golden boot polish.

Answer Key

The Golden Goal Heist

Culprit: Kylian Mbappe

diving header · golden boots · right-footed kicker · neon green dye · bright floodlights

Trail: Start 21 → Clue 1 19 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SUSPECT DOES NOT WEAR A SMART WATCH"

$\frac{1}{6}$ of 102 = 17 (T) · $\frac{4}{6}$ of 30 = 20 (S) · $\frac{1}{3}$ of 69 = 23 (A) · $\frac{5}{10}$ of 22 = 11 (H) · $\frac{2}{5}$ of 90 = 36 (E) · $\frac{3}{6}$ of 76 = 38 (D) · $\frac{5}{10}$ of 52 = 26 (N) · $\frac{1}{8}$ of 72 = 9 (R) · $\frac{6}{8}$ of 52 = 39 (O) · $\frac{2}{10}$ of 75 = 15 (W) · $\frac{1}{4}$ of 148 = 37 (C) · $\frac{2}{8}$ of 116 = 29 (M) · $\frac{1}{2}$ of 26 = 13 (P) · $\frac{7}{8}$ of 40 = 35 (U)

Clue 2 (Order of operations): "RIGHT FOOTED TURF SCUFFS AT THE PENALTY SPOT"

$35 + 5 \times 6 = 65$ (R) · $51 + 5 \times 4 = 71$ (E) · $10 + 8 \times 4 = 42$ (S) · $10 \times 5 - 14 = 36$ (P) · $10 \times 10 - 21 = 79$ (G) · $21 + 4 \times 2 = 29$ (Y) · $18 + 4 \times 2 = 26$ (T) · $6 \times 5 - 18 = 12$ (N) · $11 \times 5 - 5 = 50$ (H) · $5 \times 9 - 22 = 23$ (I) · $10 + 3 \times 2 = 16$ (O) · $53 + 2 \times 8 = 69$ (C) · $45 + 2 \times 3 = 51$ (U) · $6 + 5 \times 5 = 31$ (D) · $5 \times 10 - 4 = 46$ (F) · $11 \times 9 - 24 = 75$ (A) · $6 \times 11 - 4 = 62$ (L)

Clue 3 (Multiplication facts (1-12)): "THE GLARING FLOODLIGHTS BLINDED THE THIEF"

$9 \times 6 = 54$ (T) · $4 \times 2 = 8$ (O) · $9 \times 10 = 90$ (I) · $7 \times 4 = 28$ (B) · $8 \times 7 = 56$ (S) · $8 \times 4 = 32$ (D) · $9 \times 8 = 72$ (H) · $11 \times 9 = 99$ (R) · $6 \times 1 = 6$ (L) · $7 \times 2 = 14$ (G) · $3 \times 5 = 15$ (A) · $9 \times 7 = 63$ (F) · $9 \times 9 = 81$ (N) · $6 \times 8 = 48$ (E)

Clue 4 (Rounding): "NEON GREEN HAIR DYE SMUDGED THE TOWELS"

Round 368 to the nearest ten = 370 (N) · Round 8,581 to the nearest thousand = 9000 (E) · Round 67 to the nearest ten = 70 (I) · Round 2,909 to the nearest hundred = 2900 (R) · Round 1,121 to the nearest hundred = 1100 (U) · Round 126 to the nearest ten = 130 (T) · Round 29 to the nearest ten = 30 (D) · Round 1,810 to the nearest thousand = 2000 (L) · Round 906 to the nearest hundred = 900 (G) · Round 113 to the nearest ten = 110 (Y) · Round 172 to the nearest ten = 170 (M) · Round 2,927 to the nearest thousand = 3000 (O) · Round 290 to the nearest ten = 290 (H) · Round 88 to the nearest ten = 90 (W) · Round 668 to the nearest hundred = 700 (A) · Round 227 to the nearest ten = 230 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Kylian Mbappe

$33 \div 3 = 11$ · $4 \div 4 = 1$ · $60 \div 6 = 10$ · $60 \div 10 = 6$ · $24 \div 2 = 12$ · $8 \div 2 = 4$ · $6 \div 3 = 2$ · $81 \div 9 = 9$ · $42 \div 6 = 7$ · $6 \div 2 = 3$ · $10 \div 2 = 5$