



The Golden Cup Caper

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Missing addends · Reading level
grades 3-4

Detective: _____ Date: _____

The Championship Cup has vanished from the locked trophy room! A mysterious player snuck past security right before the big game. Coach Miller needs your help to find the culprit 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 The Phantom Striker 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	PREFERRED FOOT	HAIR STYLE	ON-FIELD WEAKNESS
Jack Grealish	high header jump	golden boots	plays left footed	curly blond hair	slips on wet grass
Alisson Becker	super speed dribble	sticky keeper gloves	plays left footed	dyed blue hair	hates bright floodlights
Lionel Messi	curving free kick	high tech smart watch	plays right footed	dyed blue hair	slips on wet grass
Martin Odegaard	high header jump	neon shin guards	plays right footed	curly blond hair	slips on wet grass
Declan Rice	bicycle kick volley	neon shin guards	plays right footed	spiky black hair	fears loud whistles
Karim Benzema	bicycle kick volley	energy sports drink	plays right footed	curly blond hair	slips on wet grass
Luis Diaz	power penalty kick	neon shin guards	plays right footed	curly blond hair	slips on wet grass
Luka Modric	high header jump	energy sports drink	plays right footed	curly blond hair	slips on wet grass
Kylian Mbappe	curving free kick	sticky keeper gloves	plays left footed	dyed blue hair	hates bright floodlights
Mohamed Salah	power penalty kick	sticky keeper gloves	plays right footed	dyed blue hair	slips on wet grass
Cristiano Ronaldo	power penalty kick	neon shin guards	plays right footed	dyed blue hair	slips on wet grass
Erling Haaland	super speed dribble	high tech smart watch	plays left footed	curly blond hair	slips on wet grass
Robert Lewandowski	super speed dribble	energy sports drink	plays left footed	dyed blue hair	hates bright floodlights
Kevin De Bruyne	high header jump	neon shin guards	plays right footed	curly blond hair	hates bright floodlights
Neymar Jr	super speed dribble	golden boots	plays left footed	dyed blue hair	hates bright floodlights
Phil Foden	curving free kick	energy sports drink	plays left footed	dyed blue hair	hates bright floodlights
Virgil van Dijk	super speed dribble	high tech smart watch	plays right footed	spiky black hair	fears loud whistles
Antoine Griezmann	curving free kick	sticky keeper gloves	plays left footed	spiky black hair	fears loud whistles
Heung Min Son	bicycle kick volley	energy sports drink	plays right footed	dyed blue hair	fears loud whistles
Harry Kane	bicycle kick volley	high tech smart watch	plays right footed	curly blond hair	slips on wet grass
Bukayo Saka	super speed dribble	sticky keeper gloves	plays right footed	curly blond hair	slips on wet grass

CLUE 1

Fractions of a number

We found a pile of practice soccer balls by the locker room door. Only a fraction of them have strange muddy prints. Let us count them to rule out one of the villain's extra items!

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

T																T
29	40	10	12	37	22	22	6	37	5	9	25	10	35	5	25	29
			T													
33	35	10	29	40	10	10	5	10	36	7	15	9	36	37	5	11

$1/2 \text{ of } 58 = \square \rightarrow \text{ **T** }$

$1/3 \text{ of } 21 = \square \rightarrow \text{ **G** }$

$6/10 \text{ of } 55 = \square \rightarrow \text{ **U** }$

$5/6 \text{ of } 42 = \square \rightarrow \text{ **S** }$

$2/10 \text{ of } 55 = \square \rightarrow \text{ **K** }$

$1/3 \text{ of } 15 = \square \rightarrow \text{ **N** }$

$4/8 \text{ of } 24 = \square \rightarrow \text{ **V** }$

$1/4 \text{ of } 160 = \square \rightarrow \text{ **H** }$

$1/5 \text{ of } 75 = \square \rightarrow \text{ **Y** }$

$1/2 \text{ of } 44 = \square \rightarrow \text{ **L** }$

$6/8 \text{ of } 12 = \square \rightarrow \text{ **D** }$

$3/8 \text{ of } 96 = \square \rightarrow \text{ **R** }$

$1/3 \text{ of } 75 = \square \rightarrow \text{ **O** }$

$3/4 \text{ of } 8 = \square \rightarrow \text{ **A** }$

$1/10 \text{ of } 100 = \square \rightarrow \text{ **E** }$

$1/5 \text{ of } 185 = \square \rightarrow \text{ **I** }$

Scratch space:

Order of operations

The VIP stadium door is locked with a tricky code. We need to solve the order of operations on the keypad to open it and find a clue about how the villain kicks.

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

$$13 + 6 \times 7 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$6 \times 5 - 13 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$59 + 2 \times 9 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$52 + 6 \times 4 = \boxed{} \rightarrow \boxed{\text{O}}$$

$6 \times 11 - 30 = \boxed{} \rightarrow \mathbf{F}$

$$37 + 2 \times 3 = \boxed{} \rightarrow \mathbf{H}$$

$17 + 2 \times 6 = \boxed{} \rightarrow \mathbf{A}$

$$8 \times 4 - 16 = \boxed{} \rightarrow \boxed{\text{R}}$$

$12 + 2 \times 6 = \boxed{} \rightarrow \mathbf{E}$

$$7 \times 10^{-26} = \boxed{} \rightarrow \boxed{\text{I}}$$

$$60 + 6 \times 3 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$8 \times 8 - 24 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$16 + 6 \times 9 = \boxed{} \rightarrow \mathbf{G}$$

$$6 + 2 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$6 + 8 \times 6 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$$52 + 8 \times 2 = \boxed{} \rightarrow \mathbf{N}$$

Scratch space:

CLUE 3

Multiplication facts (1-12)

The team cones on the field are lined up in perfect rows. Multiplying the rows will help us count the total gear and reveal the villain's biggest weakness!

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

T																
5	16	56	25	36	44	44	35	36	60	20	44	36	63	20	36	60

T					T					
5	16	56	10	56	5	66	120	35	20	20

$1 \times 5 = \square \rightarrow \boxed{\text{T}}$

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

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

$3 \times 12 = \square \rightarrow \boxed{\text{I}}$

$5 \times 5 = \square \rightarrow \boxed{\text{V}}$

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

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

$7 \times 5 = \square \rightarrow \boxed{\text{A}}$

$10 \times 12 = \square \rightarrow \boxed{\text{R}}$

$5 \times 4 = \square \rightarrow \boxed{\text{S}}$

$2 \times 5 = \square \rightarrow \boxed{\text{W}}$

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

$8 \times 7 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 4 Rounding

The huge stadium scoreboard is flashing a rounded estimate of today's crowd. Rounding the exact ticket number will help us read the secret message about the suspect's hair color.

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

B																	
230	9000	2000	90	370	110	20	700	9000	3000	130	5000	700	5000	9000	5000	300	1300
30	90	1300	4300	5000	9000	2000	110	70	5000	700	700	2000	2000	2900			

Round 228 to the nearest ten → **B**

Round 1,641 to the nearest thousand → **O**

Round 274 to the nearest hundred → **F**

Round 31 to the nearest ten → **I**

Round 721 to the nearest hundred → **R**

Round 22 to the nearest ten → **U**

Round 2,878 to the nearest hundred → **M**

Round 4,295 to the nearest hundred → **H**

Round 94 to the nearest ten → **N**

Round 106 to the nearest ten → **C**

Round 72 to the nearest ten → **K**

Round 131 to the nearest ten → **W**

Round 2,782 to the nearest thousand → **S**

Round 5,282 to the nearest thousand → **E**

Round 373 to the nearest ten → **D**

Round 8,962 to the nearest thousand → **L**

Round 1,263 to the nearest hundred → **T**

Scratch space:

CLUE 5**Missing addends - the last clue**

We are missing some goalie gloves from the equipment bag. Finding the missing number to reach our total will give us the final clue to identify the thief!

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:

$26 + \underline{\quad} = 34$

$30 + \underline{\quad} = 31$

$12 + \underline{\quad} = 19$

$21 + \underline{\quad} = 27$

$6 + \underline{\quad} = 9$

$39 + \underline{\quad} = 48$

$9 + \underline{\quad} = 19$

$19 + \underline{\quad} = 31$

$3 + \underline{\quad} = 5$

$8 + \underline{\quad} = 13$

$27 + \underline{\quad} = 31$

Step 2 - cross out the sentence with each answer:

1. The villain takes a lightning penalty kick, then checks their smart watch to time the escape.
2. The villain speeds past the defense, then drinks a quick energy sports drink.
3. The villain scores with a bicycle kick, then escapes wearing golden boots.
4. The villain blasts a curving free kick, then checks their smart watch to time the escape.
5. The villain scores with a bicycle kick, then drinks a quick energy sports drink.
6. The villain scores with a bicycle kick, then flashes bright neon shin guards.
7. The villain speeds past the defense, then grabs the trophy with sticky gloves.
8. The villain blasts a curving free kick, then flashes bright neon shin guards.
9. The villain blasts a curving free kick, then drinks a quick energy sports drink.
10. The villain takes a lightning penalty kick, then grabs the trophy with sticky gloves.
11. The villain leaps for a massive header, then flashes bright neon shin guards.
12. The villain scores with a bicycle kick, then checks their smart watch to time the escape.

Answer Key

The Golden Cup Caper

Culprit: Martin Odegaard

high header jump · neon shin guards · plays right footed · curly blond hair · slips on wet grass

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE THE ENERGY DRINK"

$\frac{1}{2}$ of 58 = 29 (T) · $\frac{1}{3}$ of 21 = 7 (G) · $\frac{6}{10}$ of 55 = 33 (U) · $\frac{5}{6}$ of 42 = 35 (S) · $\frac{2}{10}$ of 55 = 11 (K) · $\frac{1}{3}$ of 15 = 5 (N) · $\frac{4}{8}$ of 24 = 12 (V) · $\frac{1}{4}$ of 160 = 40 (H) · $\frac{1}{5}$ of 75 = 15 (Y) · $\frac{1}{2}$ of 44 = 22 (L) · $\frac{6}{8}$ of 12 = 9 (D) · $\frac{3}{8}$ of 96 = 36 (R) · $\frac{1}{3}$ of 75 = 25 (O) · $\frac{3}{4}$ of 8 = 6 (A) · $\frac{1}{10}$ of 100 = 10 (E) · $\frac{1}{5}$ of 185 = 37 (I)

Clue 2 (Order of operations): "THE VILLAIN KICKS WITH THEIR RIGHT FOOT"

$13 + 6 \times 7 = 55$ (T) · $6 \times 5 - 13 = 17$ (W) · $59 + 2 \times 9 = 77$ (K) · $52 + 6 \times 4 = 76$ (O) · $6 \times 11 - 30 = 36$ (F) · $37 + 2 \times 3 = 43$ (H) · $17 + 2 \times 6 = 29$ (A) · $8 \times 4 - 16 = 16$ (R) · $12 + 2 \times 6 = 24$ (E) · $7 \times 10 - 26 = 44$ (I) · $60 + 6 \times 3 = 78$ (L) · $8 \times 8 - 24 = 40$ (C) · $16 + 6 \times 9 = 70$ (G) · $6 + 2 \times 4 = 14$ (S) · $6 + 8 \times 6 = 54$ (V) · $52 + 8 \times 2 = 68$ (N)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN SLIPS IN THE WET GRASS"

$1 \times 5 = 5$ (T) · $10 \times 6 = 60$ (N) · $11 \times 4 = 44$ (L) · $3 \times 12 = 36$ (I) · $5 \times 5 = 25$ (V) · $7 \times 9 = 63$ (P) · $6 \times 11 = 66$ (G) · $7 \times 5 = 35$ (A) · $10 \times 12 = 120$ (R) · $5 \times 4 = 20$ (S) · $2 \times 5 = 10$ (W) · $2 \times 8 = 16$ (H) · $8 \times 7 = 56$ (E)

Clue 4 (Rounding): "BLOND CURLS WERE LEFT IN THE LOCKER ROOM"

Round 228 to the nearest ten = 230 (B) · Round 1,641 to the nearest thousand = 2000 (O) · Round 274 to the nearest hundred = 300 (F) · Round 31 to the nearest ten = 30 (I) · Round 721 to the nearest hundred = 700 (R) · Round 22 to the nearest ten = 20 (U) · Round 2,878 to the nearest hundred = 2900 (M) · Round 4,295 to the nearest hundred = 4300 (H) · Round 94 to the nearest ten = 90 (N) · Round 106 to the nearest ten = 110 (C) · Round 72 to the nearest ten = 70 (K) · Round 131 to the nearest ten = 130 (W) · Round 2,782 to the nearest thousand = 3000 (S) · Round 5,282 to the nearest thousand = 5000 (E) · Round 373 to the nearest ten = 370 (D) · Round 8,962 to the nearest thousand = 9000 (L) · Round 1,263 to the nearest hundred = 1300 (T)

Clue 5 (Missing addends): surviving statement is box 11 → Martin Odegaard

$26 + \underline{\quad} = 34 = 8$ · $30 + \underline{\quad} = 31 = 1$ · $12 + \underline{\quad} = 19 = 7$ · $21 + \underline{\quad} = 27 = 6$ · $6 + \underline{\quad} = 9 = 3$ · $39 + \underline{\quad} = 48 = 9$ · $9 + \underline{\quad} = 19 = 10$ · $19 + \underline{\quad} = 31 = 12$ · $3 + \underline{\quad} = 5 = 2$ · $8 + \underline{\quad} = 13 = 5$ · $27 + \underline{\quad} = 31 = 4$