



The Wembley Trophy Mystery

Grade 4 math · Multiplication, Word problems, Multi-step word problems, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Just before the giant Youth Cup final, someone snatched the shiny golden championship trophy right out of the glass case! A trail of muddy turf leads straight into the locker rooms. The grand stadium is packed with players and fans waiting for kickoff. We must work together to identify the Cleat Bandit and get the trophy back before the final whistle blows!

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 Cleat 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	LUCKY GEAR	PREFERRED FOOT	HAIR STYLE	DISTRACTION
Jude Bellingham	Header Goal	Neon Green Cleats	Left Footed	Spiky Hair	Loud Whistles
Rose Lavelle	Curve Shot	Striped Wristbands	Right Footed	Yellow Headband	Bright Spotlights
Cristiano Ronaldo	Bicycle Kick	Neon Green Cleats	Left Footed	Spiky Hair	Slippery Grass
Luka Modric	Nutmeg Pass	Striped Wristbands	Left Footed	Spiky Hair	Slippery Grass
Antoine Griezmann	Curve Shot	Striped Wristbands	Right Footed	Yellow Headband	Loud Whistles
Kylian Mbappe	Header Goal	Neon Green Cleats	Right Footed	Spiky Hair	Loud Whistles
Virgil van Dijk	Nutmeg Pass	Squeaky Goalie Gloves	Right Footed	Spiky Hair	Slippery Grass
Chloe Kelly	Nutmeg Pass	Striped Wristbands	Right Footed	Spiky Hair	Loud Whistles
Lionel Messi	Header Goal	Golden Shinguards	Left Footed	Spiky Hair	Loud Whistles
Lauren James	Curve Shot	Squeaky Goalie Gloves	Right Footed	Spiky Hair	Slippery Grass
Harry Kane	Nutmeg Pass	Striped Wristbands	Left Footed	Spiky Hair	Bright Spotlights
Neymar Jr	Bicycle Kick	Neon Green Cleats	Left Footed	Sleek Ponytail	Bright Spotlights
Kevin De Bruyne	Header Goal	Golden Shinguards	Left Footed	Yellow Headband	Slippery Grass
Mo Salah	Power Slide	Squeaky Goalie Gloves	Right Footed	Sleek Ponytail	Slippery Grass
Marta	Bicycle Kick	Golden Shinguards	Right Footed	Spiky Hair	Loud Whistles
Bukayo Saka	Power Slide	Golden Shinguards	Right Footed	Sleek Ponytail	Loud Whistles
Son Heung Min	Power Slide	Golden Shinguards	Left Footed	Spiky Hair	Loud Whistles
Sam Kerr	Bicycle Kick	Super Sticky Socks	Right Footed	Yellow Headband	Slippery Grass
Erling Haaland	Nutmeg Pass	Golden Shinguards	Right Footed	Spiky Hair	Loud Whistles
Megan Rapinoe	Curve Shot	Squeaky Goalie Gloves	Right Footed	Spiky Hair	Loud Whistles
Marcus Rashford	Curve Shot	Super Sticky Socks	Right Footed	Spiky Hair	Bright Spotlights

Multiplication facts (1-12)

We found a grid of soccer ball crates stacked neatly near the equipment room. Let us multiply the rows and columns to count the total balls and uncover our first big clue!

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

88	28	30	36	54	90	40	14	88	40	16	30	10	90	16	88			
4	30	54	11	90	30	16	90	42	11	30	30	90	24	120	30	54	88	10

$$8 \times 11 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$10 \times 3 = \boxed{} \rightarrow \mathbf{E}$$

$7 \times 6 = \square \rightarrow \boxed{\mathbf{G}}$

$8 \times 3 = \boxed{} \rightarrow \boxed{\text{C}}$

$$11 \times 1 = \boxed{} \rightarrow \boxed{\text{R}}$$

$9 \times 6 =$ $\rightarrow$ **A**

$10 \times 12 = \boxed{} \rightarrow \boxed{\text{L}}$

$10 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$9 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$7 \times 4 = \boxed{} \rightarrow \boxed{\text{H}}$

$10 \times 9 = \boxed{} \rightarrow \boxed{\text{N}}$

$7 \times 2 = \boxed{} \rightarrow \boxed{1}$

$1 \times 4 = \boxed{} \rightarrow \boxed{W}$

$$8 \times 2 = \boxed{} \rightarrow \boxed{0}$$

$4 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

Scratch space:

CLUE 2

Word problems

The junior team is missing some of their practice gear from the big bin. Solve this simple word problem to see what else the suspect took from the field.

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

A witness saw the villain was R E D .

59 25 52 79 78 72 10 10 78

Coach Marcus found 22 soccer balls yesterday and 37 more today. How many soccer balls in all?

Answer: → R

There were 82 shin guards. 4 were used up. How many shin guards are left?

Answer: → T

There were 45 water bottles. 20 were used up. How many water bottles are left?

Answer: → I

Coach Marcus lined up 8 rows of 9 water bottles. How many water bottles in all?

Answer: → F

There were 99 practice cones. 20 were used up. How many practice cones are left?

Answer: → H

There were 79 shin guards. 27 were used up. How many shin guards are left?

Answer: → G

Coach Marcus found 7 practice cones yesterday and 3 more today. How many practice cones in all?

Answer: → O

Scratch space:

CLUE 3

Multi-step word problems

The coach has to buy brand new practice vests and calculate the change left over from the team budget. Complete this multi-step problem to track the suspect's path.

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

Someone scared the villain off with L S T L E S .

11 6 40 32 10 70 87 11

Coach Marcus earned 7 practice cones in each of 2 rounds, plus 6 bonus practice cones. Then 9 practice cones were lost. How many practice cones are left?

Answer: → L

There were 125 captain bands in all. 1 the Fireballs used 5 captain bands each. The other 3 the Fireballs shared the rest equally. How many captain bands did each of the other the Fireballs get?

Answer: → U

There were 106 shin guards in all. 4 the Fireballs used 14 shin guards each. The other 5 the Fireballs shared the rest equally. How many shin guards did each of the other the Fireballs get?

Answer: → W

There were 107 shin guards in all. 11 shin guards were set aside. The rest were shared equally among 3 the Fireballs. How many shin guards did each get?

Answer: → D

Coach Marcus filled 5 boxes with 5 practice cones each, then found 45 more practice cones. How many practice cones are there in all?

Answer: → H

There were 129 soccer balls in all. 3 the Fireballs used 31 soccer balls each. The other 6 the Fireballs shared the rest equally. How many soccer balls did each of the other the Fireballs get?

Answer: → O

There were 528 captain bands in all. 6 captain bands were set aside. The rest were shared equally among 6 the Fireballs. How many captain bands did each get?

Answer: → I

Scratch space:

CLUE 4 Rounding

The stadium speed sensor clocked a fast run down the hallway, but the digital screen only shows the speed rounded to the nearest ten. Round the number to read the message!

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

W																	
170	290	3700	1700	2000	900	430	50	3000	90	1300	30	50	5000	90	3700	3700	
230	110	90	370	130	290	3700	5000	1700	900	5000	230	290	20	290	900	1100	230

Round 170 to the nearest ten → **W**

Round 371 to the nearest ten → **R**

Round 31 to the nearest ten → **Y**

Round 24 to the nearest ten → **B**

Round 49 to the nearest ten → **S**

Round 5,092 to the nearest thousand → **T**

Round 129 to the nearest ten → **L**

Round 292 to the nearest ten → **E**

Round 232 to the nearest ten → **H**

Round 1,709 to the nearest hundred → **O**

Round 114 to the nearest ten → **A**

Round 1,613 to the nearest thousand → **U**

Round 3,682 to the nearest hundred → **F**

Round 92 to the nearest ten → **I**

Round 3,264 to the nearest thousand → **P**

Round 1,290 to the nearest hundred → **K**

Round 1,104 to the nearest hundred → **C**

Round 428 to the nearest ten → **D**

Round 893 to the nearest hundred → **N**

Scratch space:

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

We have a bundle of orange scrimmage pinnies that we need to divide equally among the training squads. Split them up to crack the very last 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:

$11 \div 11 = \square$

$18 \div 9 = \square$

$120 \div 10 = \square$

$99 \div 9 = \square$

$28 \div 7 = \square$

$30 \div 6 = \square$

$24 \div 3 = \square$

$27 \div 9 = \square$

$70 \div 7 = \square$

$54 \div 9 = \square$

$27 \div 3 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain slips a nutmeg pass through the security guard's legs, then wipes their brow with striped wristbands.
2. The villain performs a bicycle kick to knock over the goal, then flashes their shiny golden shinguards.
3. The villain scores a header goal right into the trophy room window, then wipes their brow with striped wristbands.
4. The villain bends a curve shot around the locker room door, then wipes their brow with striped wristbands.
5. The villain executes a power slide across the wet lobby floor, then grips the turf with super sticky socks.
6. The villain scores a header goal right into the trophy room window, then flashes their shiny golden shinguards.
7. The villain slips a nutmeg pass through the security guard's legs, then flashes their shiny golden shinguards.
8. The villain performs a bicycle kick to knock over the goal, then stretches out squeaky goalie gloves.
9. The villain performs a bicycle kick to knock over the goal, then sprints away in neon green cleats.
10. The villain bends a curve shot around the locker room door, then sprints away in neon green cleats.
11. The villain executes a power slide across the wet lobby floor, then sprints away in neon green cleats.
12. The villain bends a curve shot around the locker room door, then stretches out squeaky goalie gloves.

Answer Key

The Wembley Trophy Mystery

Culprit: Erling Haaland

Nutmeg Pass · Golden Shinguards · Right Footed · Spiky Hair · Loud Whistles

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT WEAR NEON GREEN CLEATS"

$8 \times 11 = 88$ (T) · $10 \times 3 = 30$ (E) · $7 \times 6 = 42$ (G) · $8 \times 3 = 24$ (C) · $11 \times 1 = 11$ (R) · $9 \times 6 = 54$ (A) · $10 \times 12 = 120$ (L) · $10 \times 1 = 10$ (S) · $9 \times 4 = 36$ (B) · $7 \times 4 = 28$ (H) · $10 \times 9 = 90$ (N) · $7 \times 2 = 14$ (I) · $1 \times 4 = 4$ (W) · $8 \times 2 = 16$ (O) · $4 \times 10 = 40$ (D)

Clue 2 (Word problems): "RIGHT FOOTED"

Coach Marcus found 22 soccer balls yesterday and 37 more today. How many soccer balls in all? = 59 (R) · There were 82 shin guards. 4 were used up. How many shin guards are left? = 78 (T) · There were 45 water bottles. 20 were used up. How many water bottles are left? = 25 (I) · Coach Marcus lined up 8 rows of 9 water bottles. How many water bottles in all? = 72 (F) · There were 99 practice cones. 20 were used up. How many practice cones are left? = 79 (H) · There were 79 shin guards. 27 were used up. How many shin guards are left? = 52 (G) · Coach Marcus found 7 practice cones yesterday and 3 more today. How many practice cones in all? = 10 (O)

Clue 3 (Multi-step word problems): "LOUD WHISTLES"

Coach Marcus earned 7 practice cones in each of 2 rounds, plus 6 bonus practice cones. Then 9 practice cones were lost. How many practice cones are left? = 11 (L) · There were 125 captain bands in all. 1 the Fireballs used 5 captain bands each. The other 3 the Fireballs shared the rest equally. How many captain bands did each of the other the Fireballs get? = 40 (U) · There were 106 shin guards in all. 4 the Fireballs used 14 shin guards each. The other 5 the Fireballs shared the rest equally. How many shin guards did each of the other the Fireballs get? = 10 (W) · There were 107 shin guards in all. 11 shin guards were set aside. The rest were shared equally among 3 the Fireballs. How many shin guards did each get? = 32 (D) · Coach Marcus filled 5 boxes with 5 practice cones each, then found 45 more practice cones. How many practice cones are there in all? = 70 (H) · There were 129 soccer balls in all. 3 the Fireballs used 31 soccer balls each. The other 6 the Fireballs shared the rest equally. How many soccer balls did each of the other the Fireballs get? = 6 (O) · There were 528 captain bands in all. 6 captain bands were set aside. The rest were shared equally among 6 the Fireballs. How many captain bands did each get? = 87 (I)

Clue 4 (Rounding): "WE FOUND SPIKY STIFF HAIR LEFT ON THE BENCH"

Round 170 to the nearest ten = 170 (W) · Round 371 to the nearest ten = 370 (R) · Round 31 to the nearest ten = 30 (Y) · Round 24 to the nearest ten = 20 (B) · Round 49 to the nearest ten = 50 (S) · Round 5,092 to the nearest thousand = 5000 (T) · Round 129 to the nearest ten = 130 (L) · Round 292 to the nearest ten = 290 (E) · Round 232 to the nearest ten = 230 (H) · Round 1,709 to the nearest hundred = 1700 (O) · Round 114 to the nearest ten = 110 (A) · Round 1,613 to the nearest thousand = 2000 (U) · Round 3,682 to the nearest hundred = 3700 (F) · Round 92 to the nearest ten = 90 (I) · Round 3,264 to the nearest thousand = 3000 (P) · Round 1,290 to the nearest hundred = 1300 (K) · Round 1,104 to the nearest hundred = 1100 (C) · Round 428 to the nearest ten = 430 (D) · Round 893 to the nearest hundred = 900 (N)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Erling Haaland

$11 \div 11 = 1$ · $18 \div 9 = 2$ · $120 \div 10 = 12$ · $99 \div 9 = 11$ · $28 \div 7 = 4$ · $30 \div 6 = 5$ · $24 \div 3 = 8$ · $27 \div 9 = 3$ · $70 \div 7 = 10$ · $54 \div 9 = 6$ · $27 \div 3 = 9$