



The World Cup Animal Arena Mystery

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

Detective: _____ Date: _____

Just moments before the Animal World Cup final kick-off, the championship trophy vanished from the center circle! Detective Cheetah arrives on the pitch to analyze security clues and interview star players to catch 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 trophy 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	GEAR ITEM	DOMINANT FOOT	HAIR COLOR	DISTRACTION
Cristiano Ronaldo	Curve Shot	Tactical Board	Left Footed	Midnight Black	Whistle Blast
Lionel Messi	Header Pass	Golden Boot	Right Footed	Neon Green	Squeaky Toys
Bruno Fernandes	Bicycle Kick	Laser Pointer	Right Footed	Neon Green	Whistle Blast
Jude Bellingham	Header Pass	Glow Whistle	Left Footed	Bright Orange	Squeaky Toys
Erling Haaland	Power Volley	Tactical Board	Right Footed	Midnight Black	Catnip Bubbles
Memphis Depay	Curve Shot	Golden Boot	Left Footed	Neon Green	Whistle Blast
Harry Kane	Power Volley	Golden Boot	Left Footed	Neon Green	Whistle Blast
Luka Modric	Power Volley	Glow Whistle	Right Footed	Neon Green	Whistle Blast
Lautaro Martinez	Slide Tackle	Laser Pointer	Right Footed	Neon Green	Whistle Blast
Son Heung-min	Power Volley	Energy Drink	Right Footed	Midnight Black	Squeaky Toys
Antoine Griezmann	Slide Tackle	Tactical Board	Left Footed	Neon Green	Whistle Blast
Angel Di Maria	Curve Shot	Energy Drink	Left Footed	Neon Green	Whistle Blast
Richarlison	Power Volley	Glow Whistle	Right Footed	Midnight Black	Squeaky Toys
Virgil van Dijk	Slide Tackle	Glow Whistle	Right Footed	Neon Green	Whistle Blast
Achraf Hakimi	Slide Tackle	Tactical Board	Right Footed	Midnight Black	Whistle Blast
Alphonso Davies	Header Pass	Energy Drink	Right Footed	Midnight Black	Catnip Bubbles
Kevin De Bruyne	Power Volley	Energy Drink	Left Footed	Neon Green	Squeaky Toys
Pedri	Slide Tackle	Tactical Board	Left Footed	Neon Green	Squeaky Toys
Robert Lewandowski	Bicycle Kick	Glow Whistle	Left Footed	Neon Green	Squeaky Toys
Marcus Rashford	Curve Shot	Glow Whistle	Left Footed	Midnight Black	Catnip Bubbles
Manuel Neuer	Header Pass	Glow Whistle	Left Footed	Neon Green	Whistle Blast

CLUE 1

Multiplication facts (1-12)

To unlock the stadium equipment room, Coach Zebra calculates equal stacks of practice cones.

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

T																	
81	44	108	16	8	108	99	88	9	81	44	5	108	3	80	5	80	
		T															
8	12	81	24	16	108	108	8	108	33	30	9	80	33	5	8	88	

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

$8 \times 1 = \square \rightarrow \text{N}$

$9 \times 11 = \square \rightarrow \text{A}$

$12 \times 1 = \square \rightarrow \text{O}$

$10 \times 8 = \square \rightarrow \text{D}$

$3 \times 1 = \square \rightarrow \text{F}$

$11 \times 3 = \square \rightarrow \text{R}$

$4 \times 11 = \square \rightarrow \text{H}$

$9 \times 12 = \square \rightarrow \text{E}$

$12 \times 2 = \square \rightarrow \text{U}$

$1 \times 5 = \square \rightarrow \text{I}$

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

$6 \times 5 = \square \rightarrow \text{G}$

$1 \times 9 = \square \rightarrow \text{Y}$

$8 \times 11 = \square \rightarrow \text{K}$

Scratch space:

Fractions of a number

The pitch engineer measures what fractional part of the stadium floodlights remain active.

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

6 27 27 40 34 19 16 39 40 29 29 18 27 8 23 30 22 6 40

6 27 27 40 22 20 19 25 39 39 22 19

6/10 of 10 = → **F**

$$\frac{2}{5} \text{ of } 20 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$\frac{1}{8} \text{ of } 152 = \boxed{} \rightarrow \boxed{\text{R}}$$

$2/4$ of 80 = $\rightarrow$ **T**

$1/10$ of 200 = $\rightarrow$ **D**

$2/6$ of $87 = \square \rightarrow \boxed{\text{S}}$

$$2/10 \text{ of } 150 = \boxed{} \rightarrow \boxed{\text{L}}$$

$\frac{1}{6}$ of 138 = $\rightarrow$ **A**

$6/10$ of $65 = \boxed{} \rightarrow \boxed{\text{N}}$

$5/6$ of 30 = $\rightarrow$ **U**

5/10 of 44 = → **E**

$2/8$ of 108 = $\rightarrow$

$3/6$ of $36 = \square \rightarrow \boxed{\text{H}}$

2/6 of 102 = → **P**

$2/6$ of 48 = $\rightarrow$

Scratch space:

CLUE 3

Order of operations

The head referee solves a complex match scoring equation using the official rulebook.

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

T			T													
44	48	26	44	48	67	26	39	39	62	26	37	39	53	63	51	36
								T								T
62	63	29	37	49	48	67	60	44	62	26	32	62	36	60	44	

$5 \times 10 - 6 = \square \rightarrow \boxed{\text{T}}$

$10 + 2 \times 8 = \square \rightarrow \boxed{\text{E}}$

$17 + 4 \times 9 = \square \rightarrow \boxed{\text{R}}$

$11 + 7 \times 4 = \square \rightarrow \boxed{\text{F}}$

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

$9 \times 10 - 27 = \square \rightarrow \boxed{\text{O}}$

$1 + 6 \times 6 = \square \rightarrow \boxed{\text{D}}$

$10 \times 5 - 1 = \square \rightarrow \boxed{\text{W}}$

$9 \times 10 - 28 = \square \rightarrow \boxed{\text{L}}$

$9 \times 7 - 15 = \square \rightarrow \boxed{\text{H}}$

$37 + 7 \times 2 = \square \rightarrow \boxed{\text{M}}$

$11 \times 4 - 12 = \square \rightarrow \boxed{\text{B}}$

$11 + 3 \times 6 = \square \rightarrow \boxed{\text{U}}$

$9 \times 10 - 23 = \square \rightarrow \boxed{\text{I}}$

$12 \times 6 - 12 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 4

Rounding

The stadium scoreboard rounds player sprint speeds to the nearest whole number.

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

N			N					N									
3000	290	130	3000	20	2300	290	290	3000	5000	7000	110	2300	170	7000	900		
													N				
50	290	30	4300	7000	4300	4300	5000	290	900	230	290	3000	290				

Round 3,195 to the nearest thousand → **N**

Round 6,773 to the nearest thousand → **A**

Round 287 to the nearest ten → **E**

Round 232 to the nearest ten → **C**

Round 130 to the nearest ten → **O**

Round 167 to the nearest ten → **W**

Round 2,261 to the nearest hundred → **R**

Round 5,318 to the nearest thousand → **H**

Round 29 to the nearest ten → **F**

Round 4,275 to the nearest hundred → **T**

Round 21 to the nearest ten → **G**

Round 54 to the nearest ten → **L**

Round 895 to the nearest hundred → **S**

Round 107 to the nearest ten → **I**

Scratch space:

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

To organize match supplies, the equipment manager divides soccer balls equally into gear bags.

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:

$42 \div 6 = \boxed{}$

$45 \div 9 = \boxed{}$

$30 \div 5 = \boxed{}$

$7 \div 7 = \boxed{}$

$64 \div 8 = \boxed{}$

$72 \div 8 = \boxed{}$

$20 \div 10 = \boxed{}$

$24 \div 2 = \boxed{}$

$12 \div 3 = \boxed{}$

$15 \div 5 = \boxed{}$

$132 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain unleashed a bicycle kick, then flashed the laser pointer.
2. The villain executed a header pass, then flashed the laser pointer.
3. The villain curved a bending shot, then grabbed the tactical board.
4. The villain fired a power volley, then grabbed the tactical board.
5. The villain curved a bending shot, then snatched the golden boot.
6. The villain executed a header pass, then swapped the glow whistle.
7. The villain fired a power volley, then snatched the golden boot.
8. The villain fired a power volley, then flashed the laser pointer.
9. The villain curved a bending shot, then swapped the glow whistle.
10. The villain made a slide tackle, then grabbed the tactical board.
11. The villain made a slide tackle, then snatched the golden boot.
12. The villain executed a header pass, then spilled the energy drink.

Answer Key

The World Cup Animal Arena Mystery

Culprit: Antoine Griezmann

Slide Tackle · Tactical Board · Left Footed · Neon Green · Whistle Blast

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY THIEF DID NOT USE ENERGY DRINK"

$9 \times 9 = 81$ (T) · $8 \times 1 = 8$ (N) · $9 \times 11 = 99$ (A) · $12 \times 1 = 12$ (O) · $10 \times 8 = 80$ (D) · $3 \times 1 = 3$ (F) · $11 \times 3 = 33$ (R) · $4 \times 11 = 44$ (H) · $9 \times 12 = 108$ (E) · $12 \times 2 = 24$ (U) · $1 \times 5 = 5$ (I) · $2 \times 8 = 16$ (S) · $6 \times 5 = 30$ (G) · $1 \times 9 = 9$ (Y) · $8 \times 11 = 88$ (K)

Clue 2 (Fractions of a number): "FOOTPRINTS SHOW A LEFT FOOTED RUNNER"

$\frac{6}{10}$ of 10 = 6 (F) · $\frac{2}{5}$ of 20 = 8 (W) · $\frac{1}{8}$ of 152 = 19 (R) · $\frac{2}{4}$ of 80 = 40 (T) · $\frac{1}{10}$ of 200 = 20 (D) · $\frac{2}{6}$ of 87 = 29 (S) · $\frac{2}{10}$ of 150 = 30 (L) · $\frac{1}{6}$ of 138 = 23 (A) · $\frac{6}{10}$ of 65 = 39 (N) · $\frac{5}{6}$ of 30 = 25 (U) · $\frac{5}{10}$ of 44 = 22 (E) · $\frac{2}{8}$ of 108 = 27 (O) · $\frac{3}{6}$ of 36 = 18 (H) · $\frac{2}{6}$ of 102 = 34 (P) · $\frac{2}{6}$ of 48 = 16 (I)

Clue 3 (Order of operations): "THE THIEF FLED FROM A LOUD WHISTLE BLAST"

$5 \times 10 - 6 = 44$ (T) · $10 + 2 \times 8 = 26$ (E) · $17 + 4 \times 9 = 53$ (R) · $11 + 7 \times 4 = 39$ (F) · $28 + 2 \times 4 = 36$ (A) · $9 \times 10 - 27 = 63$ (O) · $1 + 6 \times 6 = 37$ (D) · $10 \times 5 - 1 = 49$ (W) · $9 \times 10 - 28 = 62$ (L) · $9 \times 7 - 15 = 48$ (H) · $37 + 7 \times 2 = 51$ (M) · $11 \times 4 - 12 = 32$ (B) · $11 + 3 \times 6 = 29$ (U) · $9 \times 10 - 23 = 67$ (I) · $12 \times 6 - 12 = 60$ (S)

Clue 4 (Rounding): "NEON GREEN HAIR WAS LEFT AT THE SCENE"

Round 3,195 to the nearest thousand = 3000 (N) · Round 6,773 to the nearest thousand = 7000 (A) · Round 287 to the nearest ten = 290 (E) · Round 232 to the nearest ten = 230 (C) · Round 130 to the nearest ten = 130 (O) · Round 167 to the nearest ten = 170 (W) · Round 2,261 to the nearest hundred = 2300 (R) · Round 5,318 to the nearest thousand = 5000 (H) · Round 29 to the nearest ten = 30 (F) · Round 4,275 to the nearest hundred = 4300 (T) · Round 21 to the nearest ten = 20 (G) · Round 54 to the nearest ten = 50 (L) · Round 895 to the nearest hundred = 900 (S) · Round 107 to the nearest ten = 110 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Antoine Griezmann

$42 \div 6 = 7$ · $45 \div 9 = 5$ · $30 \div 5 = 6$ · $7 \div 7 = 1$ · $64 \div 8 = 8$ · $72 \div 8 = 9$ · $20 \div 10 = 2$ · $24 \div 2 = 12$ · $12 \div 3 = 4$ · $15 \div 5 = 3$ · $132 \div 12 = 11$