



The Case of the Missing Championship Trophy

Grade 6 math · Fractions of a number, Percentages, Exponents, Order of operations · Reading level grades 5-6

Detective: _____ Date: _____

Right before the final whistle of the big championship match, the golden trophy vanished from its display stand! The lead referee called in Detective Maya to inspect the field, locker rooms, and sidelines before the stadium gates lock.

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 intruder 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	DOMINANT FOOT	HAIRSTYLE	PITCH OBSTACLE
Erling Haaland	Rainbow Flick	Padded Headband	Right Footed	Buzz Cut	Loud Vuvuzelas
Kylian Mbappe	Knuckleball Shot	Neon Grip Gloves	Left Footed	Buzz Cut	Muddy Pitch
Declan Rice	Diving Header	Carbon Fiber Cleats	Right Footed	Neon Green Spikes	Bright Floodlights
Alphonso Davies	Bicycle Kick	Carbon Fiber Cleats	Right Footed	Braided Ponytail	Muddy Pitch
Son Heungmin	Rainbow Flick	Padded Headband	Left Footed	Braided Ponytail	Muddy Pitch
Jude Bellingham	Rainbow Flick	Neon Grip Gloves	Right Footed	Braided Ponytail	Muddy Pitch
Alex Morgan	Diving Header	Padded Headband	Right Footed	Braided Ponytail	Bright Floodlights
Harry Kane	Curving Corner	Carbon Fiber Cleats	Right Footed	Neon Green Spikes	Muddy Pitch
Bukayo Saka	Rainbow Flick	Weighted Ankle Straps	Left Footed	Neon Green Spikes	Loud Vuvuzelas
Virgil van Dijk	Diving Header	Gold Shin Guards	Right Footed	Braided Ponytail	Muddy Pitch
Mohamed Salah	Diving Header	Carbon Fiber Cleats	Left Footed	Neon Green Spikes	Bright Floodlights
Pedri Gonzalez	Curving Corner	Gold Shin Guards	Left Footed	Neon Green Spikes	Bright Floodlights
Marta Vieira	Curving Corner	Weighted Ankle Straps	Right Footed	Neon Green Spikes	Bright Floodlights
Luka Modric	Rainbow Flick	Neon Grip Gloves	Right Footed	Buzz Cut	Muddy Pitch
Christian Pulisic	Curving Corner	Neon Grip Gloves	Right Footed	Braided Ponytail	Loud Vuvuzelas
Megan Rapinoe	Bicycle Kick	Gold Shin Guards	Right Footed	Neon Green Spikes	Muddy Pitch
Lionel Messi	Bicycle Kick	Gold Shin Guards	Right Footed	Neon Green Spikes	Loud Vuvuzelas
Kevin De Bruyne	Curving Corner	Carbon Fiber Cleats	Left Footed	Braided Ponytail	Bright Floodlights
Sam Kerr	Knuckleball Shot	Carbon Fiber Cleats	Right Footed	Braided Ponytail	Muddy Pitch
Marcus Rashford	Bicycle Kick	Neon Grip Gloves	Right Footed	Braided Ponytail	Muddy Pitch
Cristiano Ronaldo	Rainbow Flick	Carbon Fiber Cleats	Right Footed	Buzz Cut	Muddy Pitch

CLUE 1

Fractions of a number

The stadium manager checked the inventory room to calculate what fraction of the official match balls were taken during halftime.

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

T					T													
33	24	38	4	34	33	3	24	37	15	9	25	38	37	32	28	38	13	

		T													
25	28	33	8	38	34	37	22	28	30	32	13	24	9	25	

22	15	34	37	32	13

$$6/8 \text{ of } 44 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$4/8 \text{ of } 30 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$3/8 \text{ of } 24 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$1/8 \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$1/2 \text{ of } 26 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4/6 \text{ of } 12 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$5/10 \text{ of } 76 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3/10 \text{ of } 80 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$1/2 \text{ of } 68 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$1/5 \text{ of } 150 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2/8 \text{ of } 100 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$4/6 \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$1/3 \text{ of } 84 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$3/6 \text{ of } 44 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$1/2 \text{ of } 74 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1/8 \text{ of } 24 = \boxed{} \rightarrow \boxed{\text{C}}$$

Scratch space:

CLUE 2 Percentages

Security reviewed digital gate records to see what percentage of locker room access doors were unlocked when the trophy vanished.

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

F																
10	29	29	2	39	42	16	9	2	11	39	42	29	8	7	19	
						F										
42	16	34	36	2	10	29	29	2	7	41	39	22	19	40	7	42
2	36	7	42	7												

5% of 200 = → F	20% of 195 = → P	50% of 72 = → H
50% of 82 = → D	10% of 290 = → O	50% of 32 = → I
5% of 440 = → L	25% of 36 = → N	20% of 200 = → Y
25% of 56 = → W	20% of 35 = → E	20% of 55 = → S
50% of 84 = → R	10% of 80 = → V	5% of 680 = → G
5% of 380 = → A	20% of 10 = → T	

Scratch space:

CLUE 3 Exponents

Coach Vance calculated practice grid drills by finding the squared total of training cones placed along the touchline.

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

S															
128	324	169	36	36	169	243	100	25	243	16	125	289	27	27	196

					S										S				
36	169	256	64	216	128	256	25	36	36	4	27	256	216	4	128	243	4	16	361

$2^7 = \square \rightarrow$ S	$2^4 = \square \rightarrow$ A	$6^3 = \square \rightarrow$ H	$14^2 = \square \rightarrow$ Y
$13^2 = \square \rightarrow$ I	$6^2 = \square \rightarrow$ P	$4^3 = \square \rightarrow$ C	$2^2 = \square \rightarrow$ E
$3^5 = \square \rightarrow$ N	$5^3 = \square \rightarrow$ M	$2^8 = \square \rightarrow$ T	$5^2 = \square \rightarrow$ O
$19^2 = \square \rightarrow$ K	$18^2 = \square \rightarrow$ L	$3^3 = \square \rightarrow$ D	$17^2 = \square \rightarrow$ U
$10^2 = \square \rightarrow$ G			

Scratch space:

CLUE 4
Order of operations

The lead referee evaluated a complex sequence of match penalties using the order of operations to uncover a hidden lead.

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

A			A									A					A		
26	44	42	26	74	41	73	41	51	18	70	45	43	26	74	31	80	26	74	42
	A																		
64	26	35	31	73	14	43	18	70	43	80	73	44	73	70	65	80			

$22 + 2 \times 2 = \square \rightarrow$ A	$11 \times 5 - 13 = \square \rightarrow$ R	$28 + 5 \times 9 = \square \rightarrow$ E
$21 + 4 \times 5 = \square \rightarrow$ D	$30 + 7 \times 2 = \square \rightarrow$ B	$6 + 2 \times 6 = \square \rightarrow$ O
$12 \times 6 - 27 = \square \rightarrow$ Y	$52 + 3 \times 4 = \square \rightarrow$ W	$12 \times 3 - 5 = \square \rightarrow$ L
$35 + 5 \times 9 = \square \rightarrow$ H	$12 \times 7 - 14 = \square \rightarrow$ N	$2 + 4 \times 3 = \square \rightarrow$ F
$41 + 5 \times 2 = \square \rightarrow$ P	$7 \times 11 - 12 = \square \rightarrow$ C	$53 + 3 \times 7 = \square \rightarrow$ I
$9 \times 4 - 1 = \square \rightarrow$ S	$1 + 6 \times 7 = \square \rightarrow$ T	

Scratch space:

CLUE 5**Fractions of a number - the last clue**

The equipment manager counted remaining jerseys to determine what fraction of team gear was moved by the suspect.

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:

$1/6 \text{ of } 24 = \boxed{}$

$6/10 \text{ of } 5 = \boxed{}$

$1/10 \text{ of } 100 = \boxed{}$

$3/6 \text{ of } 2 = \boxed{}$

$2/4 \text{ of } 22 = \boxed{}$

$2/3 \text{ of } 12 = \boxed{}$

$3/5 \text{ of } 10 = \boxed{}$

$1/6 \text{ of } 30 = \boxed{}$

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

$1/2 \text{ of } 24 = \boxed{}$

$2/6 \text{ of } 27 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted an unpredictable knuckleball shot, then fixed a padded headband.
2. The villain flipped a stylish rainbow flick, then strapped on gold shin guards.
3. The villain performed a wild bicycle kick, then adjusted their carbon fiber cleats.
4. The villain performed a wild bicycle kick, then tightened their neon grip gloves.
5. The villain flipped a stylish rainbow flick, then adjusted their carbon fiber cleats.
6. The villain curled in a sharp curving corner, then fixed a padded headband.
7. The villain flipped a stylish rainbow flick, then tightened their neon grip gloves.
8. The villain curled in a sharp curving corner, then unbuckled weighted ankle straps.
9. The villain flipped a stylish rainbow flick, then unbuckled weighted ankle straps.
10. The villain blasted an unpredictable knuckleball shot, then adjusted their carbon fiber cleats.
11. The villain leaped for a brave diving header, then fixed a padded headband.
12. The villain curled in a sharp curving corner, then strapped on gold shin guards.

Answer Key

The Case of the Missing Championship Trophy

Culprit: Jude Bellingham

Rainbow Flick · Neon Grip Gloves · Right Footed · Braided Ponytail · Muddy Pitch

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE MATCH RUINER DOES NOT WEAR GOLD SHIN GUARDS"

$\frac{6}{8}$ of 44 = 33 (T) · $\frac{4}{8}$ of 30 = 15 (U) · $\frac{3}{8}$ of 24 = 9 (I) · $\frac{1}{8}$ of 32 = 4 (M) · $\frac{1}{2}$ of 26 = 13 (S) · $\frac{4}{6}$ of 12 = 8 (W) · $\frac{5}{10}$ of 76 = 38 (E) · $\frac{3}{10}$ of 80 = 24 (H) · $\frac{1}{2}$ of 68 = 34 (A) · $\frac{1}{5}$ of 150 = 30 (L) · $\frac{2}{8}$ of 100 = 25 (N) · $\frac{4}{6}$ of 48 = 32 (D) · $\frac{1}{3}$ of 84 = 28 (O) · $\frac{3}{6}$ of 44 = 22 (G) · $\frac{1}{2}$ of 74 = 37 (R) · $\frac{1}{8}$ of 24 = 3 (C)

Clue 2 (Percentages): "FOOTPRINTS PROVE A RIGHT FOOTED PLAYER WAS THERE"

5% of 200 = 10 (F) · 20% of 195 = 39 (P) · 50% of 72 = 36 (H) · 50% of 82 = 41 (D) · 10% of 290 = 29 (O) · 50% of 32 = 16 (I) · 5% of 440 = 22 (L) · 25% of 36 = 9 (N) · 20% of 200 = 40 (Y) · 25% of 56 = 14 (W) · 20% of 35 = 7 (E) · 20% of 55 = 11 (S) · 50% of 84 = 42 (R) · 10% of 80 = 8 (V) · 5% of 680 = 34 (G) · 5% of 380 = 19 (A) · 20% of 10 = 2 (T)

Clue 3 (Exponents): "SLIPPING ON A MUDDY PITCH STOPPED THE SNEAK"

$2^7 = 128$ (S) · $2^4 = 16$ (A) · $6^3 = 216$ (H) · $14^2 = 196$ (Y) · $13^2 = 169$ (I) · $6^2 = 36$ (P) · $4^3 = 64$ (C) · $2^2 = 4$ (E) · $3^5 = 243$ (N) · $5^3 = 125$ (M) · $2^8 = 256$ (T) · $5^2 = 25$ (O) · $19^2 = 361$ (K) · $18^2 = 324$ (L) · $3^3 = 27$ (D) · $17^2 = 289$ (U) · $10^2 = 100$ (G)

Clue 4 (Order of operations): "A BRAIDED PONYTAIL HAIR WAS LEFT ON THE BENCH"

$22 + 2 \times 2 = 26$ (A) · $11 \times 5 - 13 = 42$ (R) · $28 + 5 \times 9 = 73$ (E) · $21 + 4 \times 5 = 41$ (D) · $30 + 7 \times 2 = 44$ (B) · $6 + 2 \times 6 = 18$ (O) · $12 \times 6 - 27 = 45$ (Y) · $52 + 3 \times 4 = 64$ (W) · $12 \times 3 - 5 = 31$ (L) · $35 + 5 \times 9 = 80$ (H) · $12 \times 7 - 14 = 70$ (N) · $2 + 4 \times 3 = 14$ (F) · $41 + 5 \times 2 = 51$ (P) · $7 \times 11 - 12 = 65$ (C) · $53 + 3 \times 7 = 74$ (I) · $9 \times 4 - 1 = 35$ (S) · $1 + 6 \times 7 = 43$ (T)

Clue 5 (Fractions of a number): surviving statement is box 7 → Jude Bellingham

$\frac{1}{6}$ of 24 = 4 · $\frac{6}{10}$ of 5 = 3 · $\frac{1}{10}$ of 100 = 10 · $\frac{3}{6}$ of 2 = 1 · $\frac{2}{4}$ of 22 = 11 · $\frac{2}{3}$ of 12 = 8 · $\frac{3}{5}$ of 10 = 6 · $\frac{1}{6}$ of 30 = 5 · $\frac{2}{3}$ of 3 = 2 · $\frac{1}{2}$ of 24 = 12 · $\frac{2}{6}$ of 27 = 9