



The Great Championship Trophy Mystery

Grade 4 math · Skip counting, Multiplication, Rounding, Subtraction, Division · Reading level grades 3-4

Detective: _____ Date: _____

Just hours before the kickoff of the big final match, the golden championship trophy vanished from its display case! Detective Sam must use math clues around the stadium 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 stadium culprit is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIAL MOVE	GEAR PIECE	DOMINANT FOOT	HAIRSTYLE	WEAKNESS
Mia Hammock	Turbo Kick	Padded Gloves	Left Footed	Curly Afro	Poor Tracking
Luka Mod	Power Header	GPS Tracker	Left Footed	Spiky Cut	Slow Recovery
Pedri Gonzalez	Bicycle Kick	Gold Cleats	Left Footed	Spiky Cut	Slow Recovery
Federico Valverde	Turbo Kick	GPS Tracker	Right Footed	Braided Top	Slow Recovery
Bukayo Saka	Curved Pass	Star Headband	Left Footed	Spiky Cut	Slow Recovery
Sunil Chhetri	Bicycle Kick	Gold Cleats	Right Footed	Braided Top	Slow Recovery
Chloe Kelly	Stealth Dribble	Gold Cleats	Left Footed	Curly Afro	Slow Recovery
Erling Goal	Stealth Dribble	GPS Tracker	Left Footed	Braided Top	Weak Tackling
Cristiano Vale	Curved Pass	Padded Gloves	Left Footed	Spiky Cut	Slow Recovery
Alex Morganfield	Turbo Kick	GPS Tracker	Right Footed	Curly Afro	Slow Recovery
Son Heung	Turbo Kick	Padded Gloves	Right Footed	Spiky Cut	Slow Recovery
Aitana Bon	Curved Pass	Neon Shin Guards	Left Footed	Spiky Cut	Poor Tracking
Kylian Dash	Stealth Dribble	GPS Tracker	Left Footed	Spiky Cut	Weak Tackling
Cole Palmer	Power Header	Padded Gloves	Left Footed	Braided Top	Poor Tracking
Megan Rapino	Turbo Kick	Neon Shin Guards	Right Footed	Spiky Cut	Slow Recovery
Leo Sterling	Power Header	Padded Gloves	Right Footed	Braided Top	Slow Recovery
Marta Fields	Power Header	Padded Gloves	Left Footed	Curly Afro	Slow Recovery
Jamal Musiala	Curved Pass	Gold Cleats	Left Footed	Spiky Cut	Slow Recovery
Gavi Paez	Turbo Kick	Neon Shin Guards	Right Footed	Spiky Cut	Weak Tackling
Alphonso Davies	Turbo Kick	Gold Cleats	Right Footed	Spiky Cut	Slow Recovery
Sam Swift	Power Header	GPS Tracker	Left Footed	Spiky Cut	Weak Tackling

CLUE 1

The stadium manager counted field markers in jump steps along the sideline to find a hidden clue.

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **K**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → H

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **P**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **V**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **A**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **G**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **D**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **E**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 →

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 →

Scratch space:

CLUE 2

Multiplication facts (1-12)

The coach checked rows of practice balls on the equipment rack to unlock the next piece of evidence.

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

T																	
2	110	90	7	3	90	24	100	100	21	49	100	90	88	27	3	80	56
		T		T						T							T
144	21	2	110	2	110	90	80	90	132	2	132	27	27	2			

$2 \times 1 = \square \rightarrow \boxed{\text{T}}$

$8 \times 11 = \square \rightarrow \boxed{\text{D}}$

$1 \times 3 = \square \rightarrow \boxed{\text{N}}$

$10 \times 10 = \square \rightarrow \boxed{\text{K}}$

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

$7 \times 7 = \square \rightarrow \boxed{\text{C}}$

$10 \times 9 = \square \rightarrow \boxed{\text{E}}$

$7 \times 1 = \square \rightarrow \boxed{\text{S}}$

$12 \times 12 = \square \rightarrow \boxed{\text{W}}$

$8 \times 10 = \square \rightarrow \boxed{\text{L}}$

$6 \times 4 = \square \rightarrow \boxed{\text{A}}$

$3 \times 7 = \square \rightarrow \boxed{\text{I}}$

$12 \times 11 = \square \rightarrow \boxed{\text{F}}$

$9 \times 3 = \square \rightarrow \boxed{\text{O}}$

$11 \times 10 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

Rounding

The scoreboard display rounded the total kick distance to the nearest hundred to reveal a mystery hint.

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

A number line from 0 to 10,000. The line is marked with the following numbers in boxes: 1100, 900, 90, 110, 230, 90, 50, 7000, 70, 50, 110, 110, 30, 2300, 70, 1100, 2300. The number 1100 is highlighted in orange.

Round 1,136 to the nearest hundred $\rightarrow$ **T**

Round 367 to the nearest ten $\rightarrow$ **V**

Round 69 to the nearest ten $\rightarrow$ **W**

Round 166 to the nearest hundred $\rightarrow$ **C**

Round 51 to the nearest ten $\rightarrow$ **A**

Round 133 to the nearest ten $\rightarrow$ **R**

Round 113 to the nearest ten $\rightarrow$ **S**

Round 26 to the nearest ten $\rightarrow$ **L**

Round 879 to the nearest hundred → **H**

Round 6,674 to the nearest thousand → **K**

Round 88 to the nearest ten $\rightarrow$ **E**

Round 2,280 to the nearest hundred →

Round 227 to the nearest ten $\rightarrow$ **N**

Scratch space:

CLUE 4

Subtraction

The referee subtracted used water bottles from the locker room bin to track down a missing note.

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

E				E			E												
4753	2611	7713	7625	4753	3955	2258	4753	2490	7434	2837	8526	2490	8771	2490	7999	7713	7834	8255	

2258	7965	8322

$4951 - 198 = \square \rightarrow \boxed{\text{E}}$

$2525 - 35 = \square \rightarrow \boxed{\text{S}}$

$11712 - 3457 = \square \rightarrow \boxed{\text{Y}}$

$9685 - 2251 = \square \rightarrow \boxed{\text{H}}$

$5350 - 2739 = \square \rightarrow \boxed{\text{V}}$

$11191 - 3566 = \square \rightarrow \boxed{\text{D}}$

$8234 - 4279 = \square \rightarrow \boxed{\text{N}}$

$10572 - 2738 = \square \rightarrow \boxed{\text{K}}$

$10877 - 2555 = \square \rightarrow \boxed{\text{T}}$

$8062 - 97 = \square \rightarrow \boxed{\text{U}}$

$12065 - 4066 = \square \rightarrow \boxed{\text{P}}$

$11929 - 4216 = \square \rightarrow \boxed{\text{I}}$

$13363 - 4592 = \square \rightarrow \boxed{\text{A}}$

$3881 - 1623 = \square \rightarrow \boxed{\text{C}}$

$5454 - 2617 = \square \rightarrow \boxed{\text{O}}$

$11788 - 3262 = \square \rightarrow \boxed{\text{W}}$

Scratch space:

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

The team captain split the remaining training cones into equal piles to decode the final secret.

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:

$96 \div 8 = \boxed{}$

$11 \div 1 = \boxed{}$

$25 \div 5 = \boxed{}$

$63 \div 9 = \boxed{}$

$4 \div 2 = \boxed{}$

$11 \div 11 = \boxed{}$

$48 \div 6 = \boxed{}$

$20 \div 2 = \boxed{}$

$18 \div 3 = \boxed{}$

$36 \div 12 = \boxed{}$

$36 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain hid the championship trophy, then strapped on neon shin guards.
2. The villain took the team captain armband, then tied on a star headband.
3. The villain swiped the referee whistle, then laced up gold cleats.
4. The villain hid the championship trophy, then checked a gps tracker.
5. The villain stole the match ball, then laced up gold cleats.
6. The villain swiped the referee whistle, then tied on a star headband.
7. The villain hid the championship trophy, then adjusted padded gloves.
8. The villain swiped the referee whistle, then checked a gps tracker.
9. The villain swiped the referee whistle, then strapped on neon shin guards.
10. The villain took the team captain armband, then checked a gps tracker.
11. The villain stole the match ball, then tied on a star headband.
12. The villain swapped the corner flags, then laced up gold cleats.

Answer Key

The Great Championship Trophy Mystery

Culprit: Luka Mod

Power Header · GPS Tracker · Left Footed · Spiky Cut · Slow Recovery

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE SNEAK DOES NOT WEAR PADDED GLOVES"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (K) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (O)

Clue 2 (Multiplication facts (1-12)): "THE SNEAK KICKED ONLY WITH THE LEFT FOOT"

$2 \times 1 = 2$ (T) · $8 \times 11 = 88$ (D) · $1 \times 3 = 3$ (N) · $10 \times 10 = 100$ (K) · $7 \times 8 = 56$ (Y) · $7 \times 7 = 49$ (C) · $10 \times 9 = 90$ (E) · $7 \times 1 = 7$ (S) · $12 \times 12 = 144$ (W) · $8 \times 10 = 80$ (L) · $6 \times 4 = 24$ (A) · $3 \times 7 = 21$ (I) · $12 \times 11 = 132$ (F) · $9 \times 3 = 27$ (O) · $11 \times 10 = 110$ (H)

Clue 3 (Rounding): "THE SNEAK WAS SLOW TO RECOVER"

Round 1,136 to the nearest hundred = 1100 (T) · Round 367 to the nearest ten = 370 (V) · Round 69 to the nearest ten = 70 (W) · Round 166 to the nearest hundred = 200 (C) · Round 51 to the nearest ten = 50 (A) · Round 133 to the nearest ten = 130 (R) · Round 113 to the nearest ten = 110 (S) · Round 26 to the nearest ten = 30 (L) · Round 879 to the nearest hundred = 900 (H) · Round 6,674 to the nearest thousand = 7000 (K) · Round 88 to the nearest ten = 90 (E) · Round 2,280 to the nearest hundred = 2300 (O) · Round 227 to the nearest ten = 230 (N)

Clue 4 (Subtraction): "EVIDENCE SHOWS A SPIKY CUT"

$4951 - 198 = 4753$ (E) · $2525 - 35 = 2490$ (S) · $11712 - 3457 = 8255$ (Y) · $9685 - 2251 = 7434$ (H) · $5350 - 2739 = 2611$ (V) · $11191 - 3566 = 7625$ (D) · $8234 - 4279 = 3955$ (N) · $10572 - 2738 = 7834$ (K) · $10877 - 2555 = 8322$ (T) · $8062 - 97 = 7965$ (U) · $12065 - 4066 = 7999$ (P) · $11929 - 4216 = 7713$ (I) · $13363 - 4592 = 8771$ (A) · $3881 - 1623 = 2258$ (C) · $5454 - 2617 = 2837$ (O) · $11788 - 3262 = 8526$ (W)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Luka Mod

$96 \div 8 = 12$ · $11 \div 1 = 11$ · $25 \div 5 = 5$ · $63 \div 9 = 7$ · $4 \div 2 = 2$ · $11 \div 11 = 1$ · $48 \div 6 = 8$ · $20 \div 2 = 10$ · $18 \div 3 = 6$ · $36 \div 12 = 3$ · $36 \div 4 = 9$