



The Lost Anthem Caper

Grade 5 math · Fractions of a number, Bar models, Multi-step word problems, Order of operations, Missing addends ·
Reading level grades 5-6

Detective: _____ **Date:** _____

The official 2026 World Cup anthem has been stolen from the stadium sound booth right before the global broadcast! A rogue artist sneaked onto the stage, disrupted the rehearsals, and took the master USB drive. We need to crack the case 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 Anthem Thief is _____

Possible suspects

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

NAME	HYPE INSTRUMENT	STAGE EFFECT	MIC GRIP	HAIR COLOR	PERFORMANCE FLAW
De Bruyne	Rock Guitars	Laser Show	Right-handed mic hold	Neon Green Hair	Off-key whistle
Shakira	Brass Fanfare	Pyrotechnics	Right-handed mic hold	Jet Black Hair	Off-key whistle
Neymar	Samba Beats	Drone Display	Right-handed mic hold	Jet Black Hair	Off-key whistle
Reyna	Brass Fanfare	Confetti Cannons	Right-handed mic hold	Jet Black Hair	Off-key whistle
Messi	Techno Synths	Confetti Cannons	Left-handed mic hold	Neon Green Hair	Broken guitar string
Son	Samba Beats	Giant Holograms	Right-handed mic hold	Jet Black Hair	Squeaky microphone
Mbappe	Samba Beats	Laser Show	Left-handed mic hold	Jet Black Hair	Squeaky microphone
Musiala	Stadium Horns	Confetti Cannons	Left-handed mic hold	Neon Green Hair	Broken guitar string
Vini	Samba Beats	Laser Show	Left-handed mic hold	Golden Blonde Hair	Broken guitar string
Ochoa	Techno Synths	Laser Show	Left-handed mic hold	Neon Green Hair	Squeaky microphone
Salah	Brass Fanfare	Confetti Cannons	Left-handed mic hold	Golden Blonde Hair	Broken guitar string
Pitbull	Stadium Horns	Giant Holograms	Left-handed mic hold	Neon Green Hair	Broken guitar string
Alisson	Brass Fanfare	Confetti Cannons	Left-handed mic hold	Neon Green Hair	Off-key whistle
Benzema	Brass Fanfare	Giant Holograms	Left-handed mic hold	Golden Blonde Hair	Broken guitar string
Saka	Brass Fanfare	Pyrotechnics	Left-handed mic hold	Neon Green Hair	Broken guitar string
Pulisic	Samba Beats	Drone Display	Right-handed mic hold	Jet Black Hair	Squeaky microphone
Haaland	Stadium Horns	Drone Display	Right-handed mic hold	Golden Blonde Hair	Broken guitar string
Kane	Brass Fanfare	Drone Display	Left-handed mic hold	Neon Green Hair	Broken guitar string
Davies	Techno Synths	Pyrotechnics	Left-handed mic hold	Jet Black Hair	Squeaky microphone
Griezmann	Techno Synths	Drone Display	Left-handed mic hold	Neon Green Hair	Off-key whistle
Ronaldo	Techno Synths	Drone Display	Right-handed mic hold	Neon Green Hair	Broken guitar string

CLUE 1

The stage hands need to unpack the backup microphone and speaker shipments. Let's calculate the total weight across all these crates to find the first clue.

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

A number line from 0 to 100 with increments of 2. The number 24 is highlighted in orange and labeled with a 'T'. The number 24 is also highlighted in orange and labeled with a 'T'.

2/10 of 120 = → **T**

3/5 of 25 = → **N**

$\frac{1}{2}$ of 64 = $\rightarrow$ **R**

5/10 of 16 = → **E**

$3/8$ of 88 = $\rightarrow$

$\frac{1}{8}$ of 56 = $\rightarrow$ **U**

$2/4$ of $34 = \square \rightarrow \boxed{\text{P}}$

5/10 of 76 = → **S**

$\frac{1}{6}$ of 30 = $\rightarrow$

$2/8$ of $24 = \square \rightarrow \boxed{\mathbf{G}}$

$1/5$ of 65 = → **C**

$2/10$ of $130 = \square \rightarrow \boxed{\text{D}}$

$2/5$ of 85 = → **H**

$3/8$ of 48 = →

Scratch space:

CLUE 2
Bar model word problems

The music charts are comparing the stream counts of the top tournament songs. We can read this bar model to see who is leading the playlist.

Draw a bar model to solve each word problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was



The red team has 38 soccer balls and the blue team has 20 soccer balls. How many more soccer balls does the red team have?

draw a bar model

Answer: → **L**

The Lead Producer shares 108 VIP tickets equally among 9 teams. How many VIP tickets does each team get?

draw a bar model

Answer: → **F**

One group collected 11 whistle straps and another group collected 87 whistle straps. How many whistle straps in all?

draw a bar model

Answer: → **H**

The Lead Producer used $\frac{1}{2}$ of the stadium flags on the first day. The other 37 stadium flags were used the next day. How many stadium flags were there in all?

draw a bar model

Answer: → **E**

The Lead Producer used $\frac{3}{4}$ of the whistle straps on the first day. The other 5 whistle straps were used the next day. How many whistle straps were there in all?

draw a bar model

Answer: → **N**

One group collected 9 stadium flags and another group collected 90 stadium flags. How many stadium flags in all?

draw a bar model

Answer: → **T**

There were 34 foam fingers in all. 27 foam fingers were used. How many foam fingers are left?

draw a bar model

Answer: → **A**

CLUE 3

Multi-step word problems

A huge section of the stadium crowd is holding up blue and white cards for a mosaic. Let's find out how many fans represent that fraction of the section.

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

Someone scared the villain off with

B							U	I	T	A		S	T		I		
11	52	27	44	9	67	87					52			52		67	87

There were 98 whistle straps in all. 10 whistle straps were set aside. The rest were shared equally among 8 The Stadium Crew. How many whistle straps did each get?

Answer: → **B**

The Lead Producer collected 181 soccer balls in the morning and 80 soccer balls in the afternoon, then split them equally among 3 The Stadium Crew. How many soccer balls did each get?

Answer: → **G**

The Lead Producer filled 2 boxes with 9 foam fingers each, then found 49 more foam fingers. How many foam fingers are there in all?

Answer: → **N**

The Lead Producer collected 29 soccer balls in the morning and 52 soccer balls in the afternoon, then split them equally among 3 The Stadium Crew. How many soccer balls did each get?

Answer: → **O**

The Lead Producer collected 7 soccer balls in the morning and 29 soccer balls in the afternoon, then split them equally among 4 The Stadium Crew. How many soccer balls did each get?

Answer: → **E**

The Lead Producer collected 95 whistle straps in the morning and 9 whistle straps in the afternoon, then split them equally among 2 The Stadium Crew. How many whistle straps did each get?

Answer: → **R**

The Lead Producer earned 8 stadium flags in each of 4 rounds, plus 19 bonus stadium flags. Then 7 stadium flags were lost. How many stadium flags are left?

Answer: → **K**

Scratch space:

CLUE 4

Order of operations

To reset the soundboard, we must follow the exact order of equations on the master dial. Solve this sequence to unlock the speaker database.

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

W															
54	45	40	58	21	74	31	74	45	58	74	49	60	45	45	74
71	47	48	60	58	74	17	71	45	37	17	47	49	45		

$18 + 9 \times 4 = \square \rightarrow \boxed{\text{W}}$

$18 + 7 \times 6 = \square \rightarrow \boxed{\text{R}}$

$5 \times 8 - 3 = \square \rightarrow \boxed{\text{S}}$

$11 \times 5 - 15 = \square \rightarrow \boxed{\text{F}}$

$13 + 3 \times 6 = \square \rightarrow \boxed{\text{D}}$

$5 + 5 \times 8 = \square \rightarrow \boxed{\text{E}}$

$8 \times 5 - 23 = \square \rightarrow \boxed{\text{T}}$

$30 + 4 \times 7 = \square \rightarrow \boxed{\text{O}}$

$8 \times 9 - 23 = \square \rightarrow \boxed{\text{G}}$

$54 + 4 \times 5 = \square \rightarrow \boxed{\text{N}}$

$19 + 7 \times 4 = \square \rightarrow \boxed{\text{A}}$

$27 + 7 \times 3 = \square \rightarrow \boxed{\text{I}}$

$6 \times 12 - 1 = \square \rightarrow \boxed{\text{H}}$

$7 \times 5 - 14 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

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

We have some cables connected, but we need more to reach our goal of ninety yards. Solve for the missing length to complete the audio setup.

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:

$10 + \underline{\quad} = 12$

$1 + \underline{\quad} = 8$

$7 + \underline{\quad} = 10$

$29 + \underline{\quad} = 40$

$23 + \underline{\quad} = 31$

$34 + \underline{\quad} = 43$

$10 + \underline{\quad} = 14$

$13 + \underline{\quad} = 23$

$20 + \underline{\quad} = 25$

$6 + \underline{\quad} = 7$

$3 + \underline{\quad} = 15$

Step 2 - cross out the sentence with each answer:

1. The villain mixed pulsing techno synths, then set off a sparkling laser show.
2. The villain mixed pulsing techno synths, then fired massive confetti cannons.
3. The villain blew a royal brass fanfare, then launched a glowing drone display.
4. The villain shredded loud rock guitars, then launched a glowing drone display.
5. The villain blasted stadium horns, then set off a sparkling laser show.
6. The villain blasted stadium horns, then fired massive confetti cannons.
7. The villain blasted stadium horns, then projected giant holograms over the pitch.
8. The villain blew a royal brass fanfare, then projected giant holograms over the pitch.
9. The villain played energetic samba beats, then projected giant holograms over the pitch.
10. The villain mixed pulsing techno synths, then triggered dramatic pyrotechnics.
11. The villain mixed pulsing techno synths, then launched a glowing drone display.
12. The villain played energetic samba beats, then set off a sparkling laser show.

Answer Key

The Lost Anthem Caper

Culprit: Musiala

Stadium Horns · Confetti Cannons · Left-handed mic hold · Neon Green Hair · Broken guitar string

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SINGER DOES NOT USE PYROTECHNICS"

$2/10$ of 120 = 24 (T) · $3/5$ of 25 = 15 (N) · $1/2$ of 64 = 32 (R) · $5/10$ of 16 = 8 (E) · $3/8$ of 88 = 33 (I) · $1/8$ of 56 = 7 (U) · $2/4$ of 34 = 17 (P) · $5/10$ of 76 = 38 (S) · $1/6$ of 30 = 5 (Y) · $2/8$ of 24 = 6 (G) · $1/5$ of 65 = 13 (C) · $2/10$ of 130 = 26 (D) · $2/5$ of 85 = 34 (H) · $3/8$ of 48 = 18 (O)

Clue 2 (Bar model word problems): "LEFT HANDED MIC HOLD"

The red team has 38 soccer balls and the blue team has 20 soccer balls. How many more soccer balls does the red team have? = 18 (L) · The Lead Producer shares 108 VIP tickets equally among 9 teams. How many VIP tickets does each team get? = 12 (F) · One group collected 11 whistle straps and another group collected 87 whistle straps. How many whistle straps in all? = 98 (H) · The Lead Producer used $1/2$ of the stadium flags on the first day. The other 37 stadium flags were used the next day. How many stadium flags were there in all? = 74 (E) · The Lead Producer used $3/4$ of the whistle straps on the first day. The other 5 whistle straps were used the next day. How many whistle straps were there in all? = 20 (N) · One group collected 9 stadium flags and another group collected 90 stadium flags. How many stadium flags in all? = 99 (T) · There were 34 foam fingers in all. 27 foam fingers were used. How many foam fingers are left? = 7 (A)

Clue 3 (Multi-step word problems): "BROKEN GUITAR STRING"

There were 98 whistle straps in all. 10 whistle straps were set aside. The rest were shared equally among 8 The Stadium Crew. How many whistle straps did each get? = 11 (B) · The Lead Producer collected 181 soccer balls in the morning and 80 soccer balls in the afternoon, then split them equally among 3 The Stadium Crew. How many soccer balls did each get? = 87 (G) · The Lead Producer filled 2 boxes with 9 foam fingers each, then found 49 more foam fingers. How many foam fingers are there in all? = 67 (N) · The Lead Producer collected 29 soccer balls in the morning and 52 soccer balls in the afternoon, then split them equally among 3 The Stadium Crew. How many soccer balls did each get? = 27 (O) · The Lead Producer collected 7 soccer balls in the morning and 29 soccer balls in the afternoon, then split them equally among 4 The Stadium Crew. How many soccer balls did each get? = 9 (E) · The Lead Producer collected 95 whistle straps in the morning and 9 whistle straps in the afternoon, then split them equally among 2 The Stadium Crew. How many whistle straps did each get? = 52 (R) · The Lead Producer earned 8 stadium flags in each of 4 rounds, plus 19 bonus stadium flags. Then 7 stadium flags were lost. How many stadium flags are left? = 44 (K)

Clue 4 (Order of operations): "WE FOUND NEON GREEN HAIR ON THE STAGE"

$18 + 9 \times 4 = 54$ (W) · $18 + 7 \times 6 = 60$ (R) · $5 \times 8 - 3 = 37$ (S) · $11 \times 5 - 15 = 40$ (F) · $13 + 3 \times 6 = 31$ (D) · $5 + 5 \times 8 = 45$ (E) · $8 \times 5 - 23 = 17$ (T) · $30 + 4 \times 7 = 58$ (O) · $8 \times 9 - 23 = 49$ (G) · $54 + 4 \times 5 = 74$ (N) · $19 + 7 \times 4 = 47$ (A) · $27 + 7 \times 3 = 48$ (I) · $6 \times 12 - 1 = 71$ (H) · $7 \times 5 - 14 = 21$ (U)

Clue 5 (Missing addends): surviving statement is box 6 → Musiala

$10 + \underline{\quad} = 12 = 2$ · $1 + \underline{\quad} = 8 = 7$ · $7 + \underline{\quad} = 10 = 3$ · $29 + \underline{\quad} = 40 = 11$ · $23 + \underline{\quad} = 31 = 8$ · $34 + \underline{\quad} = 43 = 9$ · $10 + \underline{\quad} = 14 = 4$ · $13 + \underline{\quad} = 23 = 10$ · $20 + \underline{\quad} = 25 = 5$ · $6 + \underline{\quad} = 7 = 1$ · $3 + \underline{\quad} = 15 = 12$