



The Great Anthem Heist

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

Detective: _____ Date: _____

The opening match of the World Cup is hours away, but the Golden Microphone has been stolen from the Grand Arena! A mysterious thief replaced the stadium's anthem tracks with silly farm animal noises. We must decode the clues left behind at the soundboard and find the culprit 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 Saboteur is _____

Possible suspects

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

NAME	ANTHEM TUNE	STAGE FX	KICKING FOOT	HEAD WEAR	STUMP FACTOR
Jennifer	Dai Drums	Golden Cleats	right footed kicker	Green Headband	Yellow Card
Shakira	Dai Drums	Vuvuzela Solo	right footed kicker	Green Headband	Yellow Card
Zinedine	Dai Drums	Golden Cleats	right footed kicker	Neon Pink Cap	Yellow Card
David	Flag Waves	Laser Lights	right footed kicker	Green Headband	Yellow Card
Gianni	Waka Beats	Laser Lights	right footed kicker	Green Headband	Yellow Card
Diego	Flag Waves	Laser Lights	left footed kicker	Green Headband	Yellow Card
Marta	Copa Horns	Confetti Blast	left footed kicker	Spiky Gold Hair	Yellow Card
Knaan	Waka Beats	Laser Lights	left footed kicker	Neon Pink Cap	Referee Whistle
Taylor	Copa Horns	Vuvuzela Solo	right footed kicker	Green Headband	Referee Whistle
Pitbull	Waka Beats	Confetti Blast	right footed kicker	Green Headband	Yellow Card
Kylian	Samba Chords	Confetti Blast	right footed kicker	Green Headband	Water Splash
Megan	Dai Drums	Golden Cleats	left footed kicker	Green Headband	Water Splash
Neymar	Dai Drums	Vuvuzela Solo	right footed kicker	Neon Pink Cap	Referee Whistle
Adele	Flag Waves	Confetti Blast	left footed kicker	Spiky Gold Hair	Yellow Card
Bruno	Copa Horns	Vuvuzela Solo	right footed kicker	Spiky Gold Hair	Referee Whistle
Ronaldinho	Copa Horns	Vuvuzela Solo	right footed kicker	Green Headband	Yellow Card
Pele	Copa Horns	Neon Headphones	right footed kicker	Green Headband	Referee Whistle
Cristiano	Dai Drums	Laser Lights	left footed kicker	Spiky Gold Hair	Water Splash
Ricky	Dai Drums	Neon Headphones	left footed kicker	Green Headband	Yellow Card
Sheeran	Samba Chords	Vuvuzela Solo	right footed kicker	Neon Pink Cap	Yellow Card
Lionel	Waka Beats	Golden Cleats	right footed kicker	Spiky Gold Hair	Yellow Card

Fractions of a number

The sound crew counted a fraction of the broken microphone cables left behind to narrow down our search.

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

A number line from 0 to 33. The numbers are written below the line. There are boxes above the line, some of which contain the letter 'T'.

Number	Box Content
33	T
38	
18	
6	
13	
7	
28	
33	T
18	
23	
4	
31	
28	
18	
6	
12	
28	
33	T
23	
6	
18	
13	
14	
23	
14	
23	
20	
18	
3	
13	
6	
28	
3	
28	

$$2/10 \text{ of } 165 = \boxed{} \rightarrow \boxed{\text{T}}$$

2/8 of 92 = → **U**

$3/6$ of $8 = \boxed{} \rightarrow \boxed{\text{R}}$

$4/5$ of 15 = $\rightarrow$ **N**

$2/4$ of $40 = \boxed{} \rightarrow \boxed{\mathbf{Z}}$

$$\frac{1}{5} \text{ of } 190 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2/10 \text{ of } 90 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$\frac{1}{8} \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{S}}$$

$3/10$ of 10 = $\rightarrow$ **L**

2/10 of 140 = →

4/8 of 28 = $\rightarrow$ **V**

$\frac{1}{2}$ of 62 = $\rightarrow$ **D**

$3/6$ of $14 = \boxed{} \rightarrow \boxed{\text{B}}$

$$2/8 \text{ of } 52 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

Scratch space:

CLUE 2

Multi-step word problems

We had to solve a tricky multi-step gear inventory puzzle to figure out which dressing room was breached.

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	K		C	K	E	R
79	15	32	77	23	58	61	61	23				15					79

The coach earned 7 soccer balls in each of 6 rounds, plus 46 bonus soccer balls. Then 9 soccer balls were lost. How many soccer balls are left?

Answer: → **R**

The coach filled 3 boxes with 7 stadium seats each, then found 56 more stadium seats. How many stadium seats are there in all?

Answer: → **H**

The coach filled 4 boxes with 3 vuvuzelas each, then found 49 more vuvuzelas. How many vuvuzelas are there in all?

Answer: → **O**

There were 212 musical notes in all. 20 musical notes were set aside. The rest were shared equally among 6 The Anthem Stars. How many musical notes did each get?

Answer: → **G**

The coach earned 4 musical notes in each of 6 rounds, plus 41 bonus musical notes. Then 7 musical notes were lost. How many musical notes are left?

Answer: → **F**

There were 263 stadium seats in all. 33 stadium seats were set aside. The rest were shared equally among 10 The Anthem Stars. How many stadium seats did each get?

Answer: → **T**

There were 156 musical notes in all. 21 musical notes were set aside. The rest were shared equally among 9 The Anthem Stars. How many musical notes did each get?

Answer: → **I**

Scratch space:

CLUE 3
Order of operations

The stadium security code requires a specific order of operations to unlock the surveillance footage.

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

T																	
6	57	28	77	28	37	37	76	26	68	41	56	33	11	41	34	28	9

T						
6	57	28	11	56	16	70

$3 \times 6 - 12 = \square \rightarrow \text{[T]}$

$3 \times 12 - 25 = \square \rightarrow \text{[M]}$

$10 + 3 \times 9 = \square \rightarrow \text{[L]}$

$6 \times 6 - 3 = \square \rightarrow \text{[D]}$

$2 \times 11 - 6 = \square \rightarrow \text{[U]}$

$11 \times 5 - 27 = \square \rightarrow \text{[E]}$

$41 + 5 \times 3 = \square \rightarrow \text{[R]}$

$28 + 3 \times 2 = \square \rightarrow \text{[K]}$

$10 \times 5 - 9 = \square \rightarrow \text{[A]}$

$3 + 3 \times 2 = \square \rightarrow \text{[S]}$

$7 \times 12 - 7 = \square \rightarrow \text{[Y]}$

$8 \times 12 - 28 = \square \rightarrow \text{[C]}$

$10 \times 7 - 13 = \square \rightarrow \text{[H]}$

$8 \times 10 - 10 = \square \rightarrow \text{[N]}$

$20 + 2 \times 3 = \square \rightarrow \text{[W]}$

$9 \times 9 - 5 = \square \rightarrow \text{[O]}$

Scratch space:

Multiplication facts (1-12)

A fan noticed rows of shiny soccer cleats, and multiplying the pairs gave us the next clue.

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

3 132 48 60 60 84 7 60 3 4 120 3 84 4 36 1 48 3 84 4 100 3 36 20 33 11 84 4

$3 \times 1 = \square \rightarrow \boxed{\mathbf{A}}$

$6 \times 8 = \boxed{} \rightarrow \boxed{\text{R}}$

$3 \times 11 = \boxed{} \rightarrow \boxed{0}$

$4 \times 1 = \boxed{} \rightarrow \boxed{\text{D}}$

$5 \times 12 = \boxed{} \rightarrow \boxed{\text{E}}$

$12 \times 3 = \square \rightarrow \mathbf{S}$

$12 \times 7 = \boxed{} \rightarrow \boxed{\text{N}}$

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

$1 \times 11 = \square \rightarrow \boxed{\mathbf{U}}$

$10 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

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

$2 \times 10 = \square \rightarrow \boxed{\mathbf{F}}$

$11 \times 12 = \square \rightarrow \boxed{\mathbf{G}}$

$10 \times 10 = \square \rightarrow \boxed{W}$

Scratch space:

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

Only a fraction of the stadium lights were working, which helped us spot the exact exit route.

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:

$8/10 \text{ of } 15 = \boxed{}$

$4/5 \text{ of } 10 = \boxed{}$

$2/10 \text{ of } 10 = \boxed{}$

$3/6 \text{ of } 20 = \boxed{}$

$3/6 \text{ of } 12 = \boxed{}$

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

$9/10 \text{ of } 10 = \boxed{}$

$1/3 \text{ of } 21 = \boxed{}$

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

$2/8 \text{ of } 4 = \boxed{}$

$4/6 \text{ of } 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain waves a giant colored flag, then triggers a confetti blast.
2. The villain waves a giant colored flag, then shines laser lights into the crowd.
3. The villain blasts a loud waka beat, then cranks up their neon headphones.
4. The villain bangs a heavy dai drum, then plays a screeching vuvuzela solo.
5. The villain strums a swift samba chord, then kicks with golden cleats.
6. The villain waves a giant colored flag, then cranks up their neon headphones.
7. The villain blasts a loud waka beat, then kicks with golden cleats.
8. The villain bangs a heavy dai drum, then kicks with golden cleats.
9. The villain strums a swift samba chord, then shines laser lights into the crowd.
10. The villain strums a swift samba chord, then cranks up their neon headphones.
11. The villain blasts a loud waka beat, then shines laser lights into the crowd.
12. The villain blasts a loud waka beat, then triggers a confetti blast.

Answer Key

The Great Anthem Heist

Culprit: Gianni

Waka Beats · Laser Lights · right footed kicker · Green Headband · Yellow Card

Trail: Start 21 → Clue 1 15 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SABOTEUR DOES NOT USE A VUVUZELA SOLO"

$2/10$ of 165 = 33 (T) · $2/8$ of 92 = 23 (U) · $3/6$ of 8 = 4 (R) · $4/5$ of 15 = 12 (N) · $2/4$ of 40 = 20 (Z) · $1/5$ of 190 = 38 (H) · $2/10$ of 90 = 18 (E) · $1/8$ of 48 = 6 (S) · $3/10$ of 10 = 3 (L) · $2/10$ of 140 = 28 (O) · $4/8$ of 28 = 14 (V) · $1/2$ of 62 = 31 (D) · $3/6$ of 14 = 7 (B) · $2/8$ of 52 = 13 (A)

Clue 2 (Multi-step word problems): "RIGHT FOOTED KICKER"

The coach earned 7 soccer balls in each of 6 rounds, plus 46 bonus soccer balls. Then 9 soccer balls were lost. How many soccer balls are left? = 79 (R) · The coach filled 3 boxes with 7 stadium seats each, then found 56 more stadium seats. How many stadium seats are there in all? = 77 (H) · The coach filled 4 boxes with 3 vuvuzelas each, then found 49 more vuvuzelas. How many vuvuzelas are there in all? = 61 (O) · There were 212 musical notes in all. 20 musical notes were set aside. The rest were shared equally among 6 The Anthem Stars. How many musical notes did each get? = 32 (G) · The coach earned 4 musical notes in each of 6 rounds, plus 41 bonus musical notes. Then 7 musical notes were lost. How many musical notes are left? = 58 (F) · There were 263 stadium seats in all. 33 stadium seats were set aside. The rest were shared equally among 10 The Anthem Stars. How many stadium seats did each get? = 23 (T) · There were 156 musical notes in all. 21 musical notes were set aside. The rest were shared equally among 9 The Anthem Stars. How many musical notes did each get? = 15 (I)

Clue 3 (Order of operations): "THE YELLOW CARD MAKES THEM RUN"

$3 \times 6 - 12 = 6$ (T) · $3 \times 12 - 25 = 11$ (M) · $10 + 3 \times 9 = 37$ (L) · $6 \times 6 - 3 = 33$ (D) · $2 \times 11 - 6 = 16$ (U) · $11 \times 5 - 27 = 28$ (E) · $41 + 5 \times 3 = 56$ (R) · $28 + 3 \times 2 = 34$ (K) · $10 \times 5 - 9 = 41$ (A) · $3 + 3 \times 2 = 9$ (S) · $7 \times 12 - 7 = 77$ (Y) · $8 \times 12 - 28 = 68$ (C) · $10 \times 7 - 13 = 57$ (H) · $8 \times 10 - 10 = 70$ (N) · $20 + 2 \times 3 = 26$ (W) · $9 \times 9 - 5 = 76$ (O)

Clue 4 (Multiplication facts (1-12)): "A GREEN HEADBAND STRAND WAS FOUND"

$3 \times 1 = 3$ (A) · $6 \times 8 = 48$ (R) · $3 \times 11 = 33$ (O) · $4 \times 1 = 4$ (D) · $5 \times 12 = 60$ (E) · $12 \times 3 = 36$ (S) · $12 \times 7 = 84$ (N) · $1 \times 1 = 1$ (T) · $1 \times 11 = 11$ (U) · $10 \times 12 = 120$ (B) · $7 \times 1 = 7$ (H) · $2 \times 10 = 20$ (F) · $11 \times 12 = 132$ (G) · $10 \times 10 = 100$ (W)

Clue 5 (Fractions of a number): surviving statement is box 11 → Gianni

$8/10$ of 15 = 12 · $4/5$ of 10 = 8 · $2/10$ of 10 = 2 · $3/6$ of 20 = 10 · $3/6$ of 12 = 6 · $5/10$ of 10 = 5 · $9/10$ of 10 = 9 · $1/3$ of 21 = 7 · $3/10$ of 10 = 3 · $2/8$ of 4 = 1 · $4/6$ of 6 = 4