



The Great Stadium Trophy Heist

Grade 6 math · Fractions of a number, Word problems, Multi-step word problems, Percentages · Reading level grades 5-6

Detective: _____ Date: _____

Just hours before the championship final, someone unlocked the trophy case and snatched the solid gold cup! The stadium detective needs your math skills to eliminate suspects and catch 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 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 BRAND	KICKING FOOT	HAIRSTYLE	POST GAME SNACK
Lionel Messi	Bicycle Kick	Apex Gloves	Left Footed	Spiky Buzz Cut	Orange Slices
Alex Morgan	Diving Header	Precision Jersey	Right Footed	Spiky Buzz Cut	Sports Drink
Sam Kerr	Bicycle Kick	Sprint Socks	Left Footed	Spiky Buzz Cut	Orange Slices
Virgil van Dijk	Diving Header	Precision Jersey	Left Footed	Spiky Buzz Cut	Sports Drink
Alisson Becker	Rainbow Flick	Apex Gloves	Left Footed	Spiky Buzz Cut	Orange Slices
Vinicius Jr	Step Over Dribble	Velocity Cleats	Right Footed	Braided Ponytail	Sports Drink
Cristiano Ronaldo	Diving Header	Velocity Cleats	Left Footed	Braided Ponytail	Orange Slices
Luka Modric	Bicycle Kick	Velocity Cleats	Right Footed	High Top Fade	Energy Gel
Harry Kane	Step Over Dribble	Sprint Socks	Left Footed	Spiky Buzz Cut	Orange Slices
Mohamed Salah	Rainbow Flick	Apex Gloves	Right Footed	Braided Ponytail	Sports Drink
Marcus Rashford	Curving Free Kick	Precision Jersey	Right Footed	Spiky Buzz Cut	Orange Slices
Kevin De Bruyne	Diving Header	Striker Shin Guards	Right Footed	Spiky Buzz Cut	Sports Drink
Aitana Bonmati	Rainbow Flick	Sprint Socks	Right Footed	Spiky Buzz Cut	Energy Gel
Kylian Mbappe	Diving Header	Precision Jersey	Left Footed	Spiky Buzz Cut	Energy Gel
Robert Lewandowski	Step Over Dribble	Velocity Cleats	Left Footed	Spiky Buzz Cut	Orange Slices
Megan Rapinoe	Diving Header	Apex Gloves	Right Footed	High Top Fade	Sports Drink
Pedri Gonzalez	Rainbow Flick	Striker Shin Guards	Left Footed	High Top Fade	Energy Gel
Jude Bellingham	Step Over Dribble	Precision Jersey	Left Footed	Spiky Buzz Cut	Orange Slices
Bruno Fernandes	Bicycle Kick	Striker Shin Guards	Right Footed	High Top Fade	Energy Gel
Neymar Jr	Rainbow Flick	Striker Shin Guards	Left Footed	Braided Ponytail	Energy Gel
Son Heung Min	Curving Free Kick	Precision Jersey	Right Footed	Braided Ponytail	Sports Drink

CLUE 1
Fractions of a number

Coach Vance analyzed fraction patterns in team passing logs to crack the first secret code.

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

T									T								
24	9	40	29	2	40	12	38	28	24	9	4	40	27	39	12	29	

		T												T	
2	32	24	39	40	12	33	4	2	17	29	7	33	4	2	24

29	32	21	38	29

$3/4 \text{ of } 32 = \square \rightarrow \text{T}$

$6/8 \text{ of } 36 = \square \rightarrow \text{F}$

$1/10 \text{ of } 40 = \square \rightarrow \text{I}$

$7/8 \text{ of } 32 = \square \rightarrow \text{Y}$

$3/5 \text{ of } 55 = \square \rightarrow \text{R}$

$3/6 \text{ of } 58 = \square \rightarrow \text{S}$

$1/5 \text{ of } 160 = \square \rightarrow \text{O}$

$1/3 \text{ of } 6 = \square \rightarrow \text{N}$

$5/10 \text{ of } 34 = \square \rightarrow \text{G}$

$5/10 \text{ of } 42 = \square \rightarrow \text{C}$

$4/8 \text{ of } 78 = \square \rightarrow \text{W}$

$4/6 \text{ of } 60 = \square \rightarrow \text{E}$

$1/4 \text{ of } 152 = \square \rightarrow \text{K}$

$5/10 \text{ of } 18 = \square \rightarrow \text{H}$

$1/3 \text{ of } 36 = \square \rightarrow \text{A}$

$3/6 \text{ of } 14 = \square \rightarrow \text{P}$

Scratch space:

CLUE 2

Word problems

The equipment manager calculated inventory totals in the locker room to unlock a fresh lead.

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

A witness saw the villain was

L									
71	103	68	42	68	53	53	42	103	74

Stadium manager found 66 water bottles yesterday and 5 more today. How many water bottles in all?

Answer: → **L**

Stadium manager found 20 practice pinnies yesterday and 33 more today. How many practice pinnies in all?

Answer: → **O**

There were 131 training cones. 28 were used up. How many training cones are left?

Answer: → **E**

There were 93 practice pinnies. 19 were used up. How many practice pinnies are left?

Answer: → **D**

Stadium manager found 3 practice pinnies yesterday and 65 more today. How many practice pinnies in all?

Answer: → **F**

Stadium manager lined up 7 rows of 6 penalty flags. How many penalty flags in all?

Answer: → **T**

Scratch space:

CLUE 3

Multi-step word problems

By working through multi step snack bar totals across halves, the detective found key evidence.

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

Someone scared the villain off with

O							L	I	C		
38	61	28	67	24	69	56				69	56

There were 82 penalty flags in all. 6 penalty flags were set aside. The rest were shared equally among 2 Metro Strikers. How many penalty flags did each get?

Answer: → **O**

Stadium manager earned 3 water bottles in each of 2 rounds, plus 74 bonus water bottles. Then 13 water bottles were lost. How many water bottles are left?

Answer: → **N**

Stadium manager collected 1 soccer balls in the morning and 55 soccer balls in the afternoon, then split them equally among 2 Metro Strikers. How many soccer balls did each get?

Answer: → **A**

There were 282 practice pinnies in all. 4 Metro Strikers used 36 practice pinnies each. The other 2 Metro Strikers shared the rest equally. How many practice pinnies did each of the other Metro Strikers get?

Answer: → **E**

Stadium manager earned 8 training cones in each of 6 rounds, plus 19 bonus training cones. Then 6 training cones were lost. How many training cones are left?

Answer: → **R**

There were 80 water bottles in all. 32 water bottles were set aside. The rest were shared equally among 2 Metro Strikers. How many water bottles did each get?

Answer: → **G**

There were 368 soccer balls in all. 32 soccer balls were set aside. The rest were shared equally among 6 Metro Strikers. How many soccer balls did each get?

Answer: → **S**

Scratch space:

CLUE 4 Percentages

Statisticians calculated target scoring percentages displayed on the big arena screen.

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

S																		S
39	8	11	1	18	30	34	10	10	23	34	21	16	28	11	12	32	28	39
43	2	34	45	20	28	21	21	16	42	30	42	45	23	16				

$50\% \text{ of } 78 = \boxed{} \rightarrow \boxed{\text{S}}$

$5\% \text{ of } 460 = \boxed{} \rightarrow \boxed{\text{C}}$

$75\% \text{ of } 56 = \boxed{} \rightarrow \boxed{\text{E}}$

$10\% \text{ of } 100 = \boxed{} \rightarrow \boxed{\text{Z}}$

$40\% \text{ of } 30 = \boxed{} \rightarrow \boxed{\text{R}}$

$50\% \text{ of } 60 = \boxed{} \rightarrow \boxed{\text{B}}$

$5\% \text{ of } 20 = \boxed{} \rightarrow \boxed{\text{K}}$

$40\% \text{ of } 70 = \boxed{} \rightarrow \boxed{\text{A}}$

$25\% \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{P}}$

$5\% \text{ of } 900 = \boxed{} \rightarrow \boxed{\text{N}}$

$20\% \text{ of } 160 = \boxed{} \rightarrow \boxed{\text{W}}$

$10\% \text{ of } 160 = \boxed{} \rightarrow \boxed{\text{H}}$

$50\% \text{ of } 22 = \boxed{} \rightarrow \boxed{\text{I}}$

$20\% \text{ of } 10 = \boxed{} \rightarrow \boxed{\text{O}}$

$50\% \text{ of } 40 = \boxed{} \rightarrow \boxed{\text{D}}$

$5\% \text{ of } 860 = \boxed{} \rightarrow \boxed{\text{F}}$

$5\% \text{ of } 360 = \boxed{} \rightarrow \boxed{\text{Y}}$

$5\% \text{ of } 680 = \boxed{} \rightarrow \boxed{\text{U}}$

$5\% \text{ of } 420 = \boxed{} \rightarrow \boxed{\text{T}}$

Scratch space:

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

A second fractional calculation on training field drills revealed the final clue.

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:

$2/8 \text{ of } 40 = \boxed{}$

$1/4 \text{ of } 44 = \boxed{}$

$4/6 \text{ of } 9 = \boxed{}$

$4/10 \text{ of } 20 = \boxed{}$

$1/8 \text{ of } 8 = \boxed{}$

$1/4 \text{ of } 20 = \boxed{}$

$1/8 \text{ of } 72 = \boxed{}$

$1/2 \text{ of } 8 = \boxed{}$

$1/3 \text{ of } 6 = \boxed{}$

$1/2 \text{ of } 6 = \boxed{}$

$2/8 \text{ of } 28 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scored with a bicycle kick, then zipped a precision jersey.
2. The villain dived for a dramatic header, then tightened apex gloves.
3. The villain flicked the ball over a guard, then laced up velocity cleats.
4. The villain scored with a bicycle kick, then pulled up sprint socks.
5. The villain dived for a dramatic header, then zipped a precision jersey.
6. The villain flicked the ball over a guard, then tightened apex gloves.
7. The villain curved a free kick past defenders, then tightened apex gloves.
8. The villain curved a free kick past defenders, then zipped a precision jersey.
9. The villain dived for a dramatic header, then pulled up sprint socks.
10. The villain scored with a bicycle kick, then tightened apex gloves.
11. The villain dribbled with rapid step overs, then zipped a precision jersey.
12. The villain dribbled with rapid step overs, then laced up velocity cleats.

Answer Key

The Great Stadium Trophy Heist

Culprit: Robert Lewandowski

Step Over Dribble · Velocity Cleats · Left Footed · Spiky Buzz Cut · Orange Slices

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SNEAKY THIEF WAS NOT WEARING SPRINT SOCKS"

$\frac{3}{4}$ of 32 = 24 (T) · $\frac{6}{8}$ of 36 = 27 (F) · $\frac{1}{10}$ of 40 = 4 (I) · $\frac{7}{8}$ of 32 = 28 (Y) · $\frac{3}{5}$ of 55 = 33 (R) · $\frac{3}{6}$ of 58 = 29 (S) · $\frac{1}{5}$ of 160 = 32 (O) · $\frac{1}{3}$ of 6 = 2 (N) · $\frac{5}{10}$ of 34 = 17 (G) · $\frac{5}{10}$ of 42 = 21 (C) · $\frac{4}{8}$ of 78 = 39 (W) · $\frac{4}{6}$ of 60 = 40 (E) · $\frac{1}{4}$ of 152 = 38 (K) · $\frac{5}{10}$ of 18 = 9 (H) · $\frac{1}{3}$ of 36 = 12 (A) · $\frac{3}{6}$ of 14 = 7 (P)

Clue 2 (Word problems): "LEFT FOOTED"

Stadium manager found 66 water bottles yesterday and 5 more today. How many water bottles in all? = 71 (L) · Stadium manager found 20 practice pinnies yesterday and 33 more today. How many practice pinnies in all? = 53 (O) · There were 131 training cones. 28 were used up. How many training cones are left? = 103 (E) · There were 93 practice pinnies. 19 were used up. How many practice pinnies are left? = 74 (D) · Stadium manager found 3 practice pinnies yesterday and 65 more today. How many practice pinnies in all? = 68 (F) · Stadium manager lined up 7 rows of 6 penalty flags. How many penalty flags in all? = 42 (T)

Clue 3 (Multi-step word problems): "ORANGE SLICES"

There were 82 penalty flags in all. 6 penalty flags were set aside. The rest were shared equally among 2 Metro Strikers. How many penalty flags did each get? = 38 (O) · Stadium manager earned 3 water bottles in each of 2 rounds, plus 74 bonus water bottles. Then 13 water bottles were lost. How many water bottles are left? = 67 (N) · Stadium manager collected 1 soccer balls in the morning and 55 soccer balls in the afternoon, then split them equally among 2 Metro Strikers. How many soccer balls did each get? = 28 (A) · There were 282 practice pinnies in all. 4 Metro Strikers used 36 practice pinnies each. The other 2 Metro Strikers shared the rest equally. How many practice pinnies did each of the other Metro Strikers get? = 69 (E) · Stadium manager earned 8 training cones in each of 6 rounds, plus 19 bonus training cones. Then 6 training cones were lost. How many training cones are left? = 61 (R) · There were 80 water bottles in all. 32 water bottles were set aside. The rest were shared equally among 2 Metro Strikers. How many water bottles did each get? = 24 (G) · There were 368 soccer balls in all. 32 soccer balls were set aside. The rest were shared equally among 6 Metro Strikers. How many soccer balls did each get? = 56 (S)

Clue 4 (Percentages): "SPIKY BUZZ CUT HAIR WAS FOUND AT THE BENCH"

50% of 78 = 39 (S) · 5% of 460 = 23 (C) · 75% of 56 = 42 (E) · 10% of 100 = 10 (Z) · 40% of 30 = 12 (R) · 50% of 60 = 30 (B) · 5% of 20 = 1 (K) · 40% of 70 = 28 (A) · 25% of 32 = 8 (P) · 5% of 900 = 45 (N) · 20% of 160 = 32 (W) · 10% of 160 = 16 (H) · 50% of 22 = 11 (I) · 20% of 10 = 2 (O) · 50% of 40 = 20 (D) · 5% of 860 = 43 (F) · 5% of 360 = 18 (Y) · 5% of 680 = 34 (U) · 5% of 420 = 21 (T)

Clue 5 (Fractions of a number): surviving statement is box 12 → Robert Lewandowski

$\frac{2}{8}$ of 40 = 10 · $\frac{1}{4}$ of 44 = 11 · $\frac{4}{6}$ of 9 = 6 · $\frac{4}{10}$ of 20 = 8 · $\frac{1}{8}$ of 8 = 1 · $\frac{1}{4}$ of 20 = 5 · $\frac{1}{8}$ of 72 = 9 · $\frac{1}{2}$ of 8 = 4 · $\frac{1}{3}$ of 6 = 2 · $\frac{1}{2}$ of 6 = 3 · $\frac{2}{8}$ of 28 = 7