



The Missing Trophy Mystery

Grade 3 math · Multiplication, Place value, Word problems, Rounding, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone swiped the Golden Racket Trophy from the Grand Sports Academy right before the big finals! Help Detective Sam decode the clues, eliminate suspects, and track down 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 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	MAIN SPORT SKILL	GEAR BRAND	STANCE	HEADWEAR COLOR	WEAKNESS
Aryna Sabalenka	Rocket Serve	Grip Gloves	Left Handed	Green Cap	Squeaky Shoes
Roger Federer	Smash Volley	Flex Shin Guards	Left Handed	Blue Headband	Loud Whistles
Son Heungmin	Curve Ball Pass	Grip Gloves	Right Handed	Green Cap	Loud Whistles
Novak Djokovic	Power Header	Turbo Racket	Left Handed	Green Cap	Squeaky Shoes
Venus Williams	Super Bicycle Kick	Turbo Racket	Left Handed	Green Cap	Loud Whistles
Bukayo Saka	Super Bicycle Kick	Flex Shin Guards	Right Handed	Red Visor	Bright Lights
Stefanos Tsitsipas	Curve Ball Pass	Grip Gloves	Left Handed	Green Cap	Squeaky Shoes
Kylian Mbappe	Rocket Serve	Apex Cleats	Right Handed	Blue Headband	Squeaky Shoes
Carlos Alcaraz	Rocket Serve	Grip Gloves	Right Handed	Red Visor	Loud Whistles
Alex Morgan	Curve Ball Pass	Apex Cleats	Left Handed	Green Cap	Squeaky Shoes
Megan Rapinoe	Power Header	Grip Gloves	Left Handed	Blue Headband	Squeaky Shoes
Jude Bellingham	Power Header	Flex Shin Guards	Right Handed	Blue Headband	Bright Lights
Sam Kerr	Super Bicycle Kick	Pro Wristband	Right Handed	Blue Headband	Bright Lights
Marcus Rashford	Power Header	Turbo Racket	Right Handed	Red Visor	Squeaky Shoes
Iga Swiatek	Power Header	Grip Gloves	Left Handed	Red Visor	Squeaky Shoes
Coco Gauff	Curve Ball Pass	Apex Cleats	Left Handed	Green Cap	Loud Whistles
Erling Haaland	Super Bicycle Kick	Flex Shin Guards	Left Handed	Green Cap	Squeaky Shoes
Taylor Fritz	Curve Ball Pass	Grip Gloves	Right Handed	Blue Headband	Bright Lights
Naomi Osaka	Super Bicycle Kick	Apex Cleats	Left Handed	Blue Headband	Squeaky Shoes
Cristiano Ronaldo	Power Header	Grip Gloves	Right Handed	Green Cap	Squeaky Shoes
Rafael Nadal	Power Header	Flex Shin Guards	Right Handed	Red Visor	Loud Whistles

CLUE 1
Multiplication facts (1-12)

The locker room manager arranged tennis ball canisters in neat equal rows on the shelves. Multiply the rows by the balls in each row to solve the code!

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

T			T										T				
70	88	32	70	88	144	32	35	63	144	63	8	90	70	3	32	77	2
35	10	32	5	42	88	144	8	7	9	77	2	63	42				

$10 \times 7 = \square \rightarrow \text{T}$

$1 \times 8 = \square \rightarrow \text{N}$

$8 \times 4 = \square \rightarrow \text{E}$

$3 \times 1 = \square \rightarrow \text{W}$

$5 \times 7 = \square \rightarrow \text{F}$

$2 \times 5 = \square \rightarrow \text{L}$

$11 \times 7 = \square \rightarrow \text{A}$

$10 \times 9 = \square \rightarrow \text{O}$

$6 \times 7 = \square \rightarrow \text{S}$

$1 \times 5 = \square \rightarrow \text{X}$

$1 \times 9 = \square \rightarrow \text{U}$

$8 \times 11 = \square \rightarrow \text{H}$

$1 \times 7 = \square \rightarrow \text{G}$

$1 \times 2 = \square \rightarrow \text{R}$

$12 \times 12 = \square \rightarrow \text{I}$

$7 \times 9 = \square \rightarrow \text{D}$

Scratch space:

CLUE 2 Place value

Detective Sam inspected the digital scoreboard monitor. Look closely at the digits in the hundreds and tens place to crack this secret code!

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

W									W					
9000	50	900	5000	100	6000	6000	6000	1000	9000	1000	500	100	7000	900
70	1000	5000	800	100	800	1000	900	70	500	100	900	100		

What is the value of the 9 in 9,374? → **W**

What is the value of the 1 in 146? → **E**

What is the value of the 9 in 8,964? → **T**

What is the value of the 5 in 756? → **I**

What is the value of the 6 in 6,210? → **S**

What is the value of the 7 in 6,475? → **H**

What is the value of the 5 in 7,546? → **L**

What is the value of the 1 in 1,096? → **A**

What is the value of the 7 in 67,663? → **F**

What is the value of the 5 in 5,703? → **N**

What is the value of the 8 in 820? → **D**

Scratch space:

CLUE 3

Word problems

Coach Taylor had extra soccer cones and practice jerseys to sort out. Solve this story problem about sports gear to reveal the next clue!

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

Someone scared the villain off with S S H O S .

48 60 24 26 36 77 25 48 26 48

Coach Miller lined up 8 rows of 6 sweatbands. How many sweatbands in all?

Answer: → S

There were 46 sweatbands. 21 were used up. How many sweatbands are left?

Answer: → Y

Coach Miller lined up 12 rows of 3 tennis balls. How many tennis balls in all?

Answer: → A

Coach Miller lined up 12 rows of 2 sweatbands. How many sweatbands in all?

Answer: → U

Coach Miller found 54 water bottles yesterday and 23 more today. How many water bottles in all?

Answer: → K

Coach Miller found 10 practice jerseys yesterday and 16 more today. How many practice jerseys in all?

Answer: → E

Coach Miller lined up 6 rows of 10 soccer cones. How many soccer cones in all?

Answer: → Q

Scratch space:

CLUE 4 Rounding

The radar gun measured the speed of incoming serves, but the display screen only shows rounded numbers.
Round the serve speed to decode the message!

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

A							A			A						
60	20	800	70	70	300	9000	60	80	700	60	50	40	70	3000	6000	4000 300
6000	400	70	7000	70	300	9000	400									

Round 58 to the nearest ten → **A**

Round 36 to the nearest ten → **L**

Round 5,739 to the nearest thousand → **T**

Round 414 to the nearest hundred → **H**

Round 2,536 to the nearest thousand → **F**

Round 77 to the nearest ten → **P**

Round 672 to the nearest hundred → **W**

Round 16 to the nearest ten → **G**

Round 6,905 to the nearest thousand → **B**

Round 47 to the nearest ten → **S**

Round 4,403 to the nearest thousand → **O**

Round 9,462 to the nearest thousand → **C**

Round 298 to the nearest hundred → **N**

Round 767 to the nearest hundred → **R**

Round 70 to the nearest ten → **E**

Scratch space:

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

The referee divided the energy drinks equally among all the team benches. Work out the division problem to discover the final piece of evidence!

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:

$22 \div 2 = \boxed{}$

$15 \div 5 = \boxed{}$

$36 \div 4 = \boxed{}$

$3 \div 3 = \boxed{}$

$63 \div 9 = \boxed{}$

$40 \div 10 = \boxed{}$

$2 \div 1 = \boxed{}$

$40 \div 5 = \boxed{}$

$30 \div 3 = \boxed{}$

$55 \div 11 = \boxed{}$

$48 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain performed a bicycle kick, then strapped on flex shin guards.
2. The villain blasted a rocket serve, then swung a turbo racket.
3. The villain headed the ball hard, then swung a turbo racket.
4. The villain smashed a high volley, then wiped sweat with a pro wristband.
5. The villain performed a bicycle kick, then tightened grip gloves.
6. The villain curved a deep pass, then swung a turbo racket.
7. The villain blasted a rocket serve, then strapped on flex shin guards.
8. The villain headed the ball hard, then wiped sweat with a pro wristband.
9. The villain blasted a rocket serve, then tightened grip gloves.
10. The villain headed the ball hard, then adjusted their apex cleats.
11. The villain curved a deep pass, then tightened grip gloves.
12. The villain curved a deep pass, then adjusted their apex cleats.

Answer Key

The Missing Trophy Mystery

Culprit: Alex Morgan

Curve Ball Pass · Apex Cleats · Left Handed · Green Cap · Squeaky Shoes

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE THIEF DID NOT WEAR FLEX SHIN GUARDS"

$10 \times 7 = 70$ (T) · $1 \times 8 = 8$ (N) · $8 \times 4 = 32$ (E) · $3 \times 1 = 3$ (W) · $5 \times 7 = 35$ (F) · $2 \times 5 = 10$ (L) · $11 \times 7 = 77$ (A) · $10 \times 9 = 90$ (O) · $6 \times 7 = 42$ (S) · $1 \times 5 = 5$ (X) · $1 \times 9 = 9$ (U) · $8 \times 11 = 88$ (H) · $1 \times 7 = 7$ (G) · $1 \times 2 = 2$ (R) · $12 \times 12 = 144$ (I) · $7 \times 9 = 63$ (D)

Clue 2 (Place value): "WITNESS SAW A LEFT HANDED ATHLETE"

What is the value of the 9 in 9,374? = 9000 (W) · What is the value of the 1 in 146? = 100 (E) · What is the value of the 9 in 8,964? = 900 (T) · What is the value of the 5 in 756? = 50 (I) · What is the value of the 6 in 6,210? = 6000 (S) · What is the value of the 7 in 6,475? = 70 (H) · What is the value of the 5 in 7,546? = 500 (L) · What is the value of the 1 in 1,096? = 1000 (A) · What is the value of the 7 in 67,663? = 7000 (F) · What is the value of the 5 in 5,703? = 5000 (N) · What is the value of the 8 in 820? = 800 (D)

Clue 3 (Word problems): "SQUEAKY SHOES"

Coach Miller lined up 8 rows of 6 sweatbands. How many sweatbands in all? = 48 (S) · There were 46 sweatbands. 21 were used up. How many sweatbands are left? = 25 (Y) · Coach Miller lined up 12 rows of 3 tennis balls. How many tennis balls in all? = 36 (A) · Coach Miller lined up 12 rows of 2 sweatbands. How many sweatbands in all? = 24 (U) · Coach Miller found 54 water bottles yesterday and 23 more today. How many water bottles in all? = 77 (K) · Coach Miller found 10 practice jerseys yesterday and 16 more today. How many practice jerseys in all? = 26 (E) · Coach Miller lined up 6 rows of 10 soccer cones. How many soccer cones in all? = 60 (Q)

Clue 4 (Rounding): "A GREEN CAP WAS LEFT ON THE BENCH"

Round 58 to the nearest ten = 60 (A) · Round 36 to the nearest ten = 40 (L) · Round 5,739 to the nearest thousand = 6000 (T) · Round 414 to the nearest hundred = 400 (H) · Round 2,536 to the nearest thousand = 3000 (F) · Round 77 to the nearest ten = 80 (P) · Round 672 to the nearest hundred = 700 (W) · Round 16 to the nearest ten = 20 (G) · Round 6,905 to the nearest thousand = 7000 (B) · Round 47 to the nearest ten = 50 (S) · Round 4,403 to the nearest thousand = 4000 (O) · Round 9,462 to the nearest thousand = 9000 (C) · Round 298 to the nearest hundred = 300 (N) · Round 767 to the nearest hundred = 800 (R) · Round 70 to the nearest ten = 70 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Alex Morgan

$22 \div 2 = 11$ · $15 \div 5 = 3$ · $36 \div 4 = 9$ · $3 \div 3 = 1$ · $63 \div 9 = 7$ · $40 \div 10 = 4$ · $2 \div 1 = 2$ · $40 \div 5 = 8$ · $30 \div 3 = 10$ · $55 \div 11 = 5$ · $48 \div 8 = 6$