



The Grand Slam Trophy Mystery

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

Detective: _____ Date: _____

The Championship Trophy vanished from the court locker right before the big final match! Search the stadium for clues to catch the villain.

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 racket thief is _____

Possible suspects

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

NAME	SERVE STYLE	LUCKY GEAR	STANCE	VISOR COLOR	COURT SURFACE
Jessica Pegula	Slice Serve	Custom Wristband	Right Handed	Navy Blue Visor	Slippery Clay
Alex de Minaur	Flat Cannon	Vibration Dampener	Right Handed	Navy Blue Visor	Slippery Clay
Maria Sakkari	Topspin Kick	Lucky Headband	Right Handed	Navy Blue Visor	Bouncy Hard Court
Daniil Medvedev	Slice Serve	Neon Grip Tape	Left Handed	Bright Yellow Visor	Bouncy Hard Court
Ben Shelton	Flat Cannon	Glow String	Left Handed	Navy Blue Visor	Bouncy Hard Court
Taylor Fritz	Topspin Kick	Glow String	Left Handed	White Mesh Cap	Slippery Clay
Ons Jabeur	Slice Serve	Custom Wristband	Left Handed	White Mesh Cap	Fast Grass Court
Emma Raducanu	Topspin Kick	Glow String	Left Handed	Bright Yellow Visor	Slippery Clay
Alexander Zverev	Flat Cannon	Vibration Dampener	Left Handed	Bright Yellow Visor	Bouncy Hard Court
Qinwen Zheng	Twist Serve	Neon Grip Tape	Right Handed	Navy Blue Visor	Fast Grass Court
Elena Rybakina	Slice Serve	Glow String	Left Handed	Navy Blue Visor	Slippery Clay
Rafael Nadal	Flat Cannon	Lucky Headband	Left Handed	Bright Yellow Visor	Fast Grass Court
Novak Djokovic	Slice Serve	Vibration Dampener	Right Handed	White Mesh Cap	Slippery Clay
Victoria Azarenka	Slice Serve	Neon Grip Tape	Left Handed	Navy Blue Visor	Slippery Clay
Frances Tiafoe	Topspin Kick	Custom Wristband	Left Handed	Navy Blue Visor	Slippery Clay
Iga Swiatek	Flat Cannon	Lucky Headband	Left Handed	Navy Blue Visor	Bouncy Hard Court
Carlos Alcaraz	Flat Cannon	Glow String	Left Handed	Bright Yellow Visor	Slippery Clay
Leylah Fernandez	Flat Cannon	Lucky Headband	Left Handed	Navy Blue Visor	Slippery Clay
Naomi Osaka	Topspin Kick	Neon Grip Tape	Left Handed	Navy Blue Visor	Slippery Clay
Coco Gauff	Twist Serve	Vibration Dampener	Left Handed	Navy Blue Visor	Fast Grass Court
Jannik Sinner	Topspin Kick	Vibration Dampener	Right Handed	Bright Yellow Visor	Fast Grass Court

Multiplication facts (1-12)

We count the tennis ball cans stacked in equal rows behind court one.

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

[illegible]

$$7 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{T}}$$

$1 \times 3 = \boxed{} \rightarrow \boxed{1}$

$$11 \times 10 = \boxed{} \rightarrow \boxed{\text{Y}}$$

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

$10 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$11 \times 4 = \boxed{} \rightarrow \boxed{\text{W}}$

$9 \times 5 = \boxed{} \rightarrow \boxed{\text{K}}$

$$8 \times 12 = \boxed{} \rightarrow \boxed{\text{U}}$$

$5 \times 11 = \boxed{} \rightarrow \boxed{\text{R}}$

$1 \times 2 = \square \rightarrow \boxed{\mathbf{M}}$

$$2 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{D}}$$

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

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

$3 \times 4 = \boxed{} \rightarrow \boxed{\text{S}}$

$6 \times 9 = \boxed{} \rightarrow \boxed{\text{E}}$

$1 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$12 \times 9 = \boxed{} \rightarrow \boxed{\text{H}}$

$10 \times 12 = \boxed{} \rightarrow \boxed{0}$

Scratch space:

CLUE 2

Rounding

The digital speed radar rounds the serve speed to the nearest ten.

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

W									W					
70	7000	900	300	200	600	600	600	30	70	30	6000	200	4000	900

2000	30	300	9000	200	9000	400	6000	30	20	200	800	300	200	30	800	900	2000	200

80	30	600	200

Round 71 to the nearest ten → **W**

Round 1,598 to the nearest thousand → **H**

Round 83 to the nearest ten → **C**

Round 3,787 to the nearest thousand → **F**

Round 9,208 to the nearest thousand → **D**

Round 640 to the nearest hundred → **S**

Round 806 to the nearest hundred → **R**

Round 26 to the nearest ten → **A**

Round 379 to the nearest hundred → **P**

Round 6,004 to the nearest thousand → **L**

Round 7,248 to the nearest thousand → **I**

Round 16 to the nearest ten → **Y**

Round 288 to the nearest hundred → **N**

Round 868 to the nearest hundred → **T**

Round 215 to the nearest hundred → **E**

Scratch space:

CLUE 3

Word problems

The ball crew gathers the extra tennis balls leftover after practice.

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

Someone scared the villain off with S C A .

57 13 63 29 29 74 67 71 13 71

Ball kid found 55 wristbands yesterday and 2 more today.
How many wristbands in all?

Answer: → S

There were 69 rackets. 40 were used up. How many
rackets are left?

Answer: → P

Ball kid found 6 grip wraps yesterday and 7 more today.
How many grip wraps in all?

Answer: → L

Ball kid found 40 tennis balls yesterday and 34 more today.
How many tennis balls in all?

Answer: → E

There were 70 tennis balls. 3 were used up. How many
tennis balls are left?

Answer: → R

Ball kid found 29 towel rolls yesterday and 42 more today.
How many towel rolls in all?

Answer: → Y

Ball kid found 13 grip wraps yesterday and 50 more today.
How many grip wraps in all?

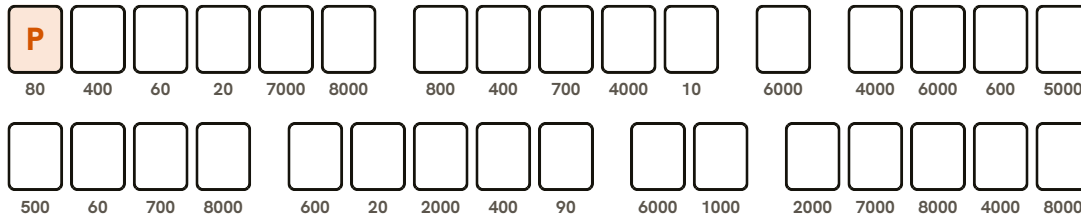
Answer: → I

Scratch space:

CLUE 4 Place value

We examine the total score counter board to find the hidden digit.

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



What is the value of the 8 in 480? → **P**

What is the value of the 4 in 4,210? → **N**

What is the value of the 1 in 91,203? → **T**

What is the value of the 7 in 7,224? → **C**

What is the value of the 6 in 26,337? → **A**

What is the value of the 5 in 7,534? → **B**

What is the value of the 8 in 861? → **F**

What is the value of the 5 in 5,481? → **Y**

What is the value of the 6 in 460? → **L**

What is the value of the 8 in 8,651? → **E**

What is the value of the 2 in 2,671? → **S**

What is the value of the 1 in 818? → **D**

What is the value of the 6 in 607? → **V**

What is the value of the 7 in 9,726? → **U**

What is the value of the 2 in 826? → **I**

What is the value of the 4 in 1,426? → **O**

What is the value of the 9 in 4,392? → **R**

Scratch space:

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

We share the juice bottles equally among the referee teams.

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:

$40 \div 10 = \square$

$64 \div 8 = \square$

$70 \div 10 = \square$

$6 \div 6 = \square$

$33 \div 3 = \square$

$27 \div 9 = \square$

$48 \div 8 = \square$

$132 \div 11 = \square$

$10 \div 1 = \square$

$45 \div 5 = \square$

$60 \div 12 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain blasted a flat cannon serve, then strung the racket with glow string.
2. The villain hit a fast slice serve, then wrapped neon grip tape on the racket.
3. The villain snuck an underhand drop serve, then strung the racket with glow string.
4. The villain blasted a flat cannon serve, then pulled on a lucky headband.
5. The villain snapped a twist serve, then wrapped neon grip tape on the racket.
6. The villain hit a fast slice serve, then adjusted a custom wristband.
7. The villain curled a topspin kick serve, then wrapped neon grip tape on the racket.
8. The villain hit a fast slice serve, then strung the racket with glow string.
9. The villain snapped a twist serve, then pulled on a lucky headband.
10. The villain curled a topspin kick serve, then snapped on a vibration dampener.
11. The villain hit a fast slice serve, then pulled on a lucky headband.
12. The villain blasted a flat cannon serve, then snapped on a vibration dampener.

Answer Key

The Grand Slam Trophy Mystery

Culprit: Victoria Azarenka

Slice Serve · Neon Grip Tape · Left Handed · Navy Blue Visor · Slippery Clay

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY THIEF DOES NOT USE CUSTOM WRISTBAND"

$7 \times 7 = 49$ (T) · $1 \times 3 = 3$ (I) · $11 \times 10 = 110$ (Y) · $5 \times 7 = 35$ (F) · $10 \times 4 = 40$ (A) · $11 \times 4 = 44$ (W) · $9 \times 5 = 45$ (K) · $8 \times 12 = 96$ (U) · $5 \times 11 = 55$ (R) · $1 \times 2 = 2$ (M) · $2 \times 11 = 22$ (D) · $4 \times 1 = 4$ (C) · $5 \times 12 = 60$ (N) · $3 \times 4 = 12$ (S) · $6 \times 9 = 54$ (E) · $1 \times 1 = 1$ (B) · $12 \times 9 = 108$ (H) · $10 \times 12 = 120$ (O)

Clue 2 (Rounding): "WITNESS SAW A LEFT HANDED PLAYER NEAR THE CASE"

Round 71 to the nearest ten = 70 (W) · Round 1,598 to the nearest thousand = 2000 (H) · Round 83 to the nearest ten = 80 (C) · Round 3,787 to the nearest thousand = 4000 (F) · Round 9,208 to the nearest thousand = 9000 (D) · Round 640 to the nearest hundred = 600 (S) · Round 806 to the nearest hundred = 800 (R) · Round 26 to the nearest ten = 30 (A) · Round 379 to the nearest hundred = 400 (P) · Round 6,004 to the nearest thousand = 6000 (L) · Round 7,248 to the nearest thousand = 7000 (I) · Round 16 to the nearest ten = 20 (Y) · Round 288 to the nearest hundred = 300 (N) · Round 868 to the nearest hundred = 900 (T) · Round 215 to the nearest hundred = 200 (E)

Clue 3 (Word problems): "SLIPPERY CLAY"

Ball kid found 55 wristbands yesterday and 2 more today. How many wristbands in all? = 57 (S) · There were 69 rackets. 40 were used up. How many rackets are left? = 29 (P) · Ball kid found 6 grip wraps yesterday and 7 more today. How many grip wraps in all? = 13 (L) · Ball kid found 40 tennis balls yesterday and 34 more today. How many tennis balls in all? = 74 (E) · There were 70 tennis balls. 3 were used up. How many tennis balls are left? = 67 (R) · Ball kid found 29 towel rolls yesterday and 42 more today. How many towel rolls in all? = 71 (Y) · Ball kid found 13 grip wraps yesterday and 50 more today. How many grip wraps in all? = 63 (I)

Clue 4 (Place value): "POLICE FOUND A NAVY BLUE VISOR AT SCENE"

What is the value of the 8 in 480? = 80 (P) · What is the value of the 4 in 4,210? = 4000 (N) · What is the value of the 1 in 91,203? = 1000 (T) · What is the value of the 7 in 7,224? = 7000 (C) · What is the value of the 6 in 26,337? = 6000 (A) · What is the value of the 5 in 7,534? = 500 (B) · What is the value of the 8 in 861? = 800 (F) · What is the value of the 5 in 5,481? = 5000 (Y) · What is the value of the 6 in 460? = 60 (L) · What is the value of the 8 in 8,651? = 8000 (E) · What is the value of the 2 in 2,671? = 2000 (S) · What is the value of the 1 in 818? = 10 (D) · What is the value of the 6 in 607? = 600 (V) · What is the value of the 7 in 9,726? = 700 (U) · What is the value of the 2 in 826? = 20 (I) · What is the value of the 4 in 1,426? = 400 (O) · What is the value of the 9 in 4,392? = 90 (R)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Victoria Azarenka

$40 \div 10 = 4$ · $64 \div 8 = 8$ · $70 \div 10 = 7$ · $6 \div 6 = 1$ · $33 \div 3 = 11$ · $27 \div 9 = 3$ · $48 \div 8 = 6$ · $132 \div 11 = 12$ · $10 \div 1 = 10$ · $45 \div 5 = 9$ · $60 \div 12 = 5$