



The Obsidian Court Mystery

Grade 5 math · Addition, Multiplication, Rounding, Skip counting, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

During the championship finals of the Nether Ender-Ball Tournament, a rogue pirate captain sabotaged the glowing obsidian rim and vanished into the shadows with the golden trophy. It is up to you to decode the stadium evidence and unmask 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 Rogue Ender Captain is _____

Possible suspects

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

NAME	SIGNATURE SHOT	SPECIAL TECHNIQUE	DOMINANT HAND	HELMET ACCENT	COUNTER ITEM
Nether Ned	Ender Dunk	Shield Bash	Right Handed	Emerald Accent	Water Bucket
Giannis	Redstone Hook	Feather Fall	Left Handed	Emerald Accent	Water Bucket
Sea Dog Sam	Nether Swish	Obsidian Wall	Left Handed	Gold Accent	Water Bucket
Captain Hook	Ender Dunk	Slime Bounce	Left Handed	Gold Accent	Glowstone Dust
Shaq	Nether Swish	Ender Teleport	Left Handed	Emerald Accent	Glowstone Dust
Mary Read	Redstone Hook	Shield Bash	Left Handed	Emerald Accent	Glowstone Dust
Patchy	Prismarine Float	Obsidian Wall	Right Handed	Diamond Accent	Splash Potion
Admiral Apex	Nether Swish	Shield Bash	Left Handed	Emerald Accent	Splash Potion
Calico Jack	Prismarine Float	Feather Fall	Right Handed	Gold Accent	Splash Potion
Steve	Ender Dunk	Obsidian Wall	Left Handed	Emerald Accent	Glowstone Dust
Blocky Bill	Redstone Hook	Feather Fall	Left Handed	Emerald Accent	Glowstone Dust
Redbeard	Nether Swish	Feather Fall	Left Handed	Emerald Accent	Glowstone Dust
Luka Doncic	Ender Dunk	Slime Bounce	Left Handed	Diamond Accent	Glowstone Dust
Kyrie Irving	Bedrock Bank	Ender Teleport	Left Handed	Emerald Accent	Water Bucket
Anne Bonny	Redstone Hook	Ender Teleport	Left Handed	Diamond Accent	Glowstone Dust
Alex	Prismarine Float	Shield Bash	Right Handed	Emerald Accent	Glowstone Dust
Kobe Bryant	Nether Swish	Feather Fall	Right Handed	Emerald Accent	Splash Potion
Kevin Durant	Bedrock Bank	Slime Bounce	Left Handed	Emerald Accent	Water Bucket
Captain Kidd	Nether Swish	Shield Bash	Left Handed	Gold Accent	Glowstone Dust
Ender Eric	Ender Dunk	Feather Fall	Left Handed	Gold Accent	Glowstone Dust
LeBron James	Redstone Hook	Shield Bash	Right Handed	Gold Accent	Glowstone Dust

CLUE 1 Addition

We tallied the total stolen doubloons recovered from the pirate dugout after the arena break in.

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

T								T								T
4012	7449	4489	8935	5904	8935	8792	4489	4075	4012	4514	5475	4489	8935	3551	5475	4012

5904	8935	4489	5475	8923	8935	2868	4514	2868	4525	3551	9379	4525	4153

$2279 + 1733 = \square \rightarrow \text{[T]}$	$4848 + 4075 = \square \rightarrow \text{[B]}$	$2100 + 2414 = \square \rightarrow \text{[D]}$
$4530 + 4849 = \square \rightarrow \text{[W]}$	$2640 + 1435 = \square \rightarrow \text{[C]}$	$2222 + 1329 = \square \rightarrow \text{[N]}$
$2502 + 1987 = \square \rightarrow \text{[E]}$	$1320 + 2833 = \square \rightarrow \text{[L]}$	$5108 + 3827 = \square \rightarrow \text{[S]}$
$3158 + 2317 = \square \rightarrow \text{[O]}$	$5318 + 3474 = \square \rightarrow \text{[P]}$	$1922 + 3982 = \square \rightarrow \text{[U]}$
$2720 + 1805 = \square \rightarrow \text{[A]}$	$3505 + 3944 = \square \rightarrow \text{[H]}$	$1011 + 1857 = \square \rightarrow \text{[I]}$

Scratch space:

CLUE 2

Multiplication facts (1-12)

The scouting report counted jersey crates stacked in equal rows behind the obsidian bleachers.

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

T									T					T				T	
42	84	21	5	27	5	88	21	8	42	5	84	66	66	42	5	22	1	42	84

T								T				
42	84	21	1	6	77	21	72	42	84	36	24	25

$6 \times 7 = \square \rightarrow \boxed{\text{T}}$

$7 \times 11 = \square \rightarrow \boxed{\text{L}}$

$3 \times 7 = \square \rightarrow \boxed{\text{E}}$

$4 \times 6 = \square \rightarrow \boxed{\text{N}}$

$1 \times 1 = \square \rightarrow \boxed{\text{I}}$

$3 \times 2 = \square \rightarrow \boxed{\text{R}}$

$4 \times 9 = \square \rightarrow \boxed{\text{A}}$

$5 \times 1 = \square \rightarrow \boxed{\text{S}}$

$12 \times 6 = \square \rightarrow \boxed{\text{F}}$

$11 \times 8 = \square \rightarrow \boxed{\text{P}}$

$7 \times 12 = \square \rightarrow \boxed{\text{H}}$

$5 \times 5 = \square \rightarrow \boxed{\text{D}}$

$1 \times 8 = \square \rightarrow \boxed{\text{C}}$

$6 \times 11 = \square \rightarrow \boxed{\text{O}}$

$2 \times 11 = \square \rightarrow \boxed{\text{W}}$

$9 \times 3 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 3

Rounding

The main digital scoreboard was damaged and only displayed rounded point totals for each crew.

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

B																			
500	7000	4300	130	110	200	230	1300	4300	130	200	2000	50	110	1300	2000	30	4300	200	230

2300	7000	290	30	5000	200	290	130	1300	110	50	5000	200	

Round 471 to the nearest hundred → **B**

Round 230 to the nearest ten → **H**

Round 52 to the nearest ten → **U**

Round 2,303 to the nearest hundred → **G**

Round 107 to the nearest ten → **D**

Round 2,243 to the nearest thousand → **R**

Round 27 to the nearest ten → **W**

Round 4,312 to the nearest hundred → **I**

Round 1,305 to the nearest hundred → **E**

Round 153 to the nearest hundred → **T**

Round 132 to the nearest ten → **N**

Round 4,606 to the nearest thousand → **S**

Round 291 to the nearest ten → **O**

Round 7,303 to the nearest thousand → **L**

Scratch space:

CLUE 4 Skip counting

We tracked the rhythm of footsteps marching in steady beats across the nether brick floor.

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

E		E							E			E				E		
26	36	26	6	30	16	21	12	26	16	36	26	100	30	15	15	26	90	100
												E						
8	30	40	27	24	35	90	21	30	100	100	12	26	15	24	35	6	100	

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **E**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, __, 35, 40 → **A**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **L**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **W**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **C**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **M**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **O**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **U**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **F**

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **H**

Scratch space:

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

The referee split the leftover emerald prizes equally among all competing pirate squads.

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:

$45 \div 9 = \boxed{}$

$81 \div 9 = \boxed{}$

$6 \div 1 = \boxed{}$

$14 \div 7 = \boxed{}$

$36 \div 9 = \boxed{}$

$84 \div 7 = \boxed{}$

$20 \div 2 = \boxed{}$

$88 \div 8 = \boxed{}$

$10 \div 10 = \boxed{}$

$72 \div 9 = \boxed{}$

$18 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain floats a prismarine arc, then activates a feather fall.
2. The villain floats a prismarine arc, then constructs an obsidian wall.
3. The villain hooks a redstone shot, then constructs an obsidian wall.
4. The villain drains a nether swish, then raises a shield bash.
5. The villain drains a nether swish, then executes an ender teleport.
6. The villain hooks a redstone shot, then activates a feather fall.
7. The villain hooks a redstone shot, then raises a shield bash.
8. The villain slams an ender dunk, then triggers a slime bounce.
9. The villain drains a nether swish, then activates a feather fall.
10. The villain slams an ender dunk, then raises a shield bash.
11. The villain slams an ender dunk, then constructs an obsidian wall.
12. The villain caroms a bedrock bank, then raises a shield bash.

Answer Key

The Obsidian Court Mystery

Culprit: Mary Read

Redstone Hook · Shield Bash · Left Handed · Emerald Accent · Glowstone Dust

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT USE OBSIDIAN WALL"

$2279 + 1733 = 4012$ (T) · $4848 + 4075 = 8923$ (B) · $2100 + 2414 = 4514$ (D) · $4530 + 4849 = 9379$ (W) · $2640 + 1435 = 4075$ (C) · $2222 + 1329 = 3551$ (N) · $2502 + 1987 = 4489$ (E) · $1320 + 2833 = 4153$ (L) · $5108 + 3827 = 8935$ (S) · $3158 + 2317 = 5475$ (O) · $5318 + 3474 = 8792$ (P) · $1922 + 3982 = 5904$ (U) · $2720 + 1805 = 4525$ (A) · $3505 + 3944 = 7449$ (H) · $1011 + 1857 = 2868$ (I)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT SHOOTS WITH THEIR LEFT HAND"

$6 \times 7 = 42$ (T) · $7 \times 11 = 77$ (L) · $3 \times 7 = 21$ (E) · $4 \times 6 = 24$ (N) · $1 \times 1 = 1$ (I) · $3 \times 2 = 6$ (R) · $4 \times 9 = 36$ (A) · $5 \times 1 = 5$ (S) · $12 \times 6 = 72$ (F) · $11 \times 8 = 88$ (P) · $7 \times 12 = 84$ (H) · $5 \times 5 = 25$ (D) · $1 \times 8 = 8$ (C) · $6 \times 11 = 66$ (O) · $2 \times 11 = 22$ (W) · $9 \times 3 = 27$ (U)

Clue 3 (Rounding): "BLIND THE INTRUDER WITH GLOWSTONE DUST"

Round 471 to the nearest hundred = 500 (B) · Round 230 to the nearest ten = 230 (H) · Round 52 to the nearest ten = 50 (U) · Round 2,303 to the nearest hundred = 2300 (G) · Round 107 to the nearest ten = 110 (D) · Round 2,243 to the nearest thousand = 2000 (R) · Round 27 to the nearest ten = 30 (W) · Round 4,312 to the nearest hundred = 4300 (I) · Round 1,305 to the nearest hundred = 1300 (E) · Round 153 to the nearest hundred = 200 (T) · Round 132 to the nearest ten = 130 (N) · Round 4,606 to the nearest thousand = 5000 (S) · Round 291 to the nearest ten = 290 (O) · Round 7,303 to the nearest thousand = 7000 (L)

Clue 4 (Skip counting): "EMERALD HELMET ACCENT WAS FOUND AT THE COURT"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (E) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, __, 35, 40 = 30 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (M) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (H)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Mary Read

$45 \div 9 = 5$ · $81 \div 9 = 9$ · $6 \div 1 = 6$ · $14 \div 7 = 2$ · $36 \div 9 = 4$ · $84 \div 7 = 12$ · $20 \div 2 = 10$ · $88 \div 8 = 11$ · $10 \div 10 = 1$ · $72 \div 9 = 8$ · $18 \div 6 = 3$