



The Nether Star Trophy Heist

Grade 6 math · Percentages, Exponents, Order of operations, Multiplication, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

The stadium was packed for the championship soccer match when the lights suddenly flickered. In the dark, someone shattered the obsidian trophy case and stole the legendary Nether Star Cup! The match is paused, and the referee needs you to scan the pitch for clues, crack the redstone puzzles, and identify the thief before the clock runs out.

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 the Ender Striker is _____

Possible suspects

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

NAME	MOVEMENT ABILITY	ENCHANTMENT	DOMINANT FOOT	PIXEL HAIR COLOR	DEFENSIVE COUNTER
Bruno Fernandes	Ender Pearl Teleport	Thorns Armor	Left Footed	Green Pixels	Water Bucket
Luis Diaz	Firework Blast	Fortune Kick	Right Footed	Green Pixels	Shears
Antoine Griezmann	Obsidian Charge	Thorns Armor	Right Footed	Orange Pixels	Golden Apple
Virgil van Dijk	Firework Blast	Silk Touch Glove	Left Footed	Orange Pixels	Water Bucket
Mo Salah	Ender Pearl Teleport	Fortune Kick	Right Footed	Blue Pixels	Water Bucket
Marcus Rashford	Obsidian Charge	Thorns Armor	Left Footed	Orange Pixels	Shears
Kevin De Bruyne	Slime Bounce	Silk Touch Glove	Right Footed	Orange Pixels	Shears
Declan Rice	Slime Bounce	Thorns Armor	Left Footed	Orange Pixels	Shears
Luka Modric	Slime Bounce	Fortune Kick	Left Footed	Orange Pixels	Water Bucket
Robert Lewandowski	Ender Pearl Teleport	Flame Kick	Left Footed	Orange Pixels	Shears
Son Heung-min	Ender Pearl Teleport	Knockback Cleat	Left Footed	Blue Pixels	Water Bucket
Phil Foden	Redstone Dash	Flame Kick	Left Footed	Green Pixels	Shears
Bukayo Saka	Obsidian Charge	Fortune Kick	Left Footed	Orange Pixels	Shears
Neymar Jr	Slime Bounce	Silk Touch Glove	Left Footed	Green Pixels	Shears
Alex Minecraft	Obsidian Charge	Fortune Kick	Left Footed	Blue Pixels	Shears
Zlatan Ibrahimovic	Firework Blast	Thorns Armor	Left Footed	Orange Pixels	Shears
Lionel Messi	Obsidian Charge	Silk Touch Glove	Left Footed	Blue Pixels	Golden Apple
Harry Kane	Redstone Dash	Thorns Armor	Right Footed	Blue Pixels	Shears
Steve Striker	Obsidian Charge	Flame Kick	Right Footed	Green Pixels	Water Bucket
Jack Grealish	Slime Bounce	Fortune Kick	Left Footed	Orange Pixels	Shears
Jude Bellingham	Slime Bounce	Knockback Cleat	Right Footed	Orange Pixels	Shears

CLUE 1 Percentages

You inspect the trophy case security panel. A corrupted data block displays the thief's remaining armor durability as a percentage. Solve the percentage equation to unlock the security log.

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

T																T
42	36	13	17	18	9	9	11	18	43	6	21	13	2	43	21	42
			T					T								
34	2	13	42	36	13	10	21	27	42	34	43	13	24	18	4	24

$10\% \text{ of } 420 = \square \rightarrow \boxed{\text{T}}$

$10\% \text{ of } 170 = \square \rightarrow \boxed{\text{V}}$

$20\% \text{ of } 30 = \square \rightarrow \boxed{\text{D}}$

$25\% \text{ of } 16 = \square \rightarrow \boxed{\text{C}}$

$50\% \text{ of } 18 = \square \rightarrow \boxed{\text{L}}$

$40\% \text{ of } 5 = \square \rightarrow \boxed{\text{S}}$

$20\% \text{ of } 170 = \square \rightarrow \boxed{\text{U}}$

$10\% \text{ of } 240 = \square \rightarrow \boxed{\text{K}}$

$5\% \text{ of } 220 = \square \rightarrow \boxed{\text{A}}$

$10\% \text{ of } 360 = \square \rightarrow \boxed{\text{H}}$

$25\% \text{ of } 108 = \square \rightarrow \boxed{\text{R}}$

$25\% \text{ of } 84 = \square \rightarrow \boxed{\text{O}}$

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

$5\% \text{ of } 260 = \square \rightarrow \boxed{\text{E}}$

$20\% \text{ of } 215 = \square \rightarrow \boxed{\text{N}}$

$40\% \text{ of } 45 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 2

The thief fled across a grid of chunk coordinates that scale up exponentially. Calculate the power level of the redstone repeaters to find which direction they bolted.

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

Diagram illustrating the decomposition of 144 into prime factors using a factor tree structure. The factors are arranged in two rows. The first row shows 144 = 324 * 32 = 100 * 225 * 100 * 361 * 32 * 4 * 144. The second row shows 144 = 36 * 9 * 9 * 144 * 361 * 49 * 243 * 196 * 144. The factors 144, 361, 49, and 243 are highlighted in orange.

$$2^5 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$15^2 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$2^2 = \boxed{} \rightarrow \boxed{\mathbf{C}}$$

$$6^2 = \boxed{} \rightarrow \boxed{\text{F}}$$

Scratch space:

CLUE 3

Order of operations

To unlock the stadium locker room, you must decipher a complex crafting recipe code. Follow the strict order of operations to determine the correct sequence of ingredients.

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

T			T													
59	16	54	59	16	64	54	33	48	22	37	33	48	55	26		
21	16	22	48	41	21	16	54	22	48	21						

$7 \times 11 - 18 = \square \rightarrow \boxed{\text{T}}$

$38 + 4 \times 4 = \square \rightarrow \boxed{\text{E}}$

$8 \times 7 - 8 = \square \rightarrow \boxed{\text{R}}$

$10 \times 8 - 16 = \square \rightarrow \boxed{\text{I}}$

$6 + 2 \times 5 = \square \rightarrow \boxed{\text{H}}$

$14 + 3 \times 4 = \square \rightarrow \boxed{\text{M}}$

$12 + 3 \times 7 = \square \rightarrow \boxed{\text{F}}$

$29 + 6 \times 2 = \square \rightarrow \boxed{\text{P}}$

$5 + 8 \times 2 = \square \rightarrow \boxed{\text{S}}$

$12 + 2 \times 5 = \square \rightarrow \boxed{\text{A}}$

$13 + 6 \times 4 = \square \rightarrow \boxed{\text{N}}$

$7 \times 8 - 1 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The stadium store room is stacked with rows of double chests containing match supplies. Multiply the rows of coal blocks by the arrows in each stack to reveal the clue hidden inside.

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

O																			
36	100	2	81	10	6	28	80	120	6	33	7	2	80	100	9	33	66	81	10
	O																		
3	36	3	7	6	10	36	2	33											

$12 \times 3 = \square \rightarrow \boxed{\text{O}}$

$10 \times 12 = \square \rightarrow \boxed{\text{X}}$

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

$2 \times 1 = \square \rightarrow \boxed{\text{A}}$

$1 \times 10 = \square \rightarrow \boxed{\text{G}}$

$9 \times 9 = \square \rightarrow \boxed{\text{N}}$

$11 \times 3 = \square \rightarrow \boxed{\text{L}}$

$10 \times 8 = \square \rightarrow \boxed{\text{I}}$

$10 \times 10 = \square \rightarrow \boxed{\text{R}}$

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

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

$4 \times 7 = \square \rightarrow \boxed{\text{P}}$

$3 \times 1 = \square \rightarrow \boxed{\text{T}}$

$3 \times 3 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

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

The local villagers are dividing up the remaining emerald blocks to rebuild the ruined pitch. Divide the total loot pile evenly to get the final coordinates of the thief's hideout.

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:

$63 \div 9 = \boxed{}$

$45 \div 5 = \boxed{}$

$55 \div 11 = \boxed{}$

$12 \div 2 = \boxed{}$

$48 \div 12 = \boxed{}$

$66 \div 6 = \boxed{}$

$33 \div 11 = \boxed{}$

$20 \div 10 = \boxed{}$

$5 \div 5 = \boxed{}$

$120 \div 10 = \boxed{}$

$88 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain leaped off a slime block, then grabbed the golden whistle.
2. The villain blasted a redstone firework, then pocketed the emerald medals.
3. The villain dashed through the obsidian gate, then stole the enchanted match ball.
4. The villain sprinted across the grass blocks, then swiped the nether star trophy.
5. The villain leaped off a slime block, then snatched the diamond cleats.
6. The villain teleported past the goalie, then stole the enchanted match ball.
7. The villain dashed through the obsidian gate, then snatched the diamond cleats.
8. The villain blasted a redstone firework, then grabbed the golden whistle.
9. The villain teleported past the goalie, then swiped the nether star trophy.
10. The villain blasted a redstone firework, then snatched the diamond cleats.
11. The villain blasted a redstone firework, then swiped the nether star trophy.
12. The villain sprinted across the grass blocks, then pocketed the emerald medals.

Answer Key

The Nether Star Trophy Heist

Culprit: Zlatan Ibrahimovic

Firework Blast · Thorns Armor · Left Footed · Orange Pixels · Shears

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Percentages): "THE VILLAIN DOES NOT USE THE FORTUNE KICK"

10% of 420 = 42 (T) · 10% of 170 = 17 (V) · 20% of 30 = 6 (D) · 25% of 16 = 4 (C) · 50% of 18 = 9 (L) · 40% of 5 = 2 (S) · 20% of 170 = 34 (U) · 10% of 240 = 24 (K) · 5% of 220 = 11 (A) · 10% of 360 = 36 (H) · 25% of 108 = 27 (R) · 25% of 84 = 21 (O) · 10% of 100 = 10 (F) · 5% of 260 = 13 (E) · 20% of 215 = 43 (N) · 40% of 45 = 18 (I)

Clue 2 (Exponents): "THE SUSPECT LEFT A LEFT FOOTPRINT"

$12^2 = 144$ (T) · $7^2 = 49$ (R) · $14^2 = 196$ (N) · $2^5 = 32$ (E) · $19^2 = 361$ (P) · $3^2 = 9$ (O) · $18^2 = 324$ (H) · $15^2 = 225$ (U) · $2^6 = 64$ (A) · $3^5 = 243$ (I) · $6^3 = 216$ (L) · $2^2 = 4$ (C) · $10^2 = 100$ (S) · $6^2 = 36$ (F)

Clue 3 (Order of operations): "THE THIEF RAN FROM SHARP SHEARS"

$7 \times 11 - 18 = 59$ (T) · $38 + 4 \times 4 = 54$ (E) · $8 \times 7 - 8 = 48$ (R) · $10 \times 8 - 16 = 64$ (I) · $6 + 2 \times 5 = 16$ (H) · $14 + 3 \times 4 = 26$ (M) · $12 + 3 \times 7 = 33$ (F) · $29 + 6 \times 2 = 41$ (P) · $5 + 8 \times 2 = 21$ (S) · $12 + 2 \times 5 = 22$ (A) · $13 + 6 \times 4 = 37$ (N) · $7 \times 8 - 1 = 55$ (O)

Clue 4 (Multiplication facts (1-12)): "ORANGE PIXEL HAIR CLUNG TO THE GOAL"

$12 \times 3 = 36$ (O) · $10 \times 12 = 120$ (X) · $3 \times 2 = 6$ (E) · $2 \times 1 = 2$ (A) · $1 \times 10 = 10$ (G) · $9 \times 9 = 81$ (N) · $11 \times 3 = 33$ (L) · $10 \times 8 = 80$ (I) · $10 \times 10 = 100$ (R) · $7 \times 1 = 7$ (H) · $6 \times 11 = 66$ (U) · $4 \times 7 = 28$ (P) · $3 \times 1 = 3$ (T) · $3 \times 3 = 9$ (C)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Zlatan Ibrahimovic

$63 \div 9 = 7$ · $45 \div 5 = 9$ · $55 \div 11 = 5$ · $12 \div 2 = 6$ · $48 \div 12 = 4$ · $66 \div 6 = 11$ · $33 \div 11 = 3$ · $20 \div 10 = 2$ · $5 \div 5 = 1$ · $120 \div 10 = 12$ · $88 \div 11 = 8$