



The Mystery of the Missing Dragon Egg

Grade 4 math · Place value, Addition, Rounding, Fractions of a number · Reading level grades 3-4

Detective: _____ Date: _____

The trophy room is empty! Someone mined through the obsidian floor and stole the legendary Dragon Egg. Steve and Alex found a trail of blocky crumbs and weird redstone dust leading out of the spawn area. Help us decode the clues and find the blocky 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 grieving thief is _____

Possible suspects

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

NAME	PRIMARY SKILL	BONUS ITEM	MAIN HAND	BLOCKY HAIR COLOR	SURVIVAL WEAKNESS
Etho	Elytra Flying	Golden Apple Eat	Right Handed	Blue Blocky Hair	Splash Water Bottle
Iskall	Nether Brewing	Wolf Taming	Right Handed	Blue Blocky Hair	Splash Water Bottle
Grian	Nether Brewing	Spawn Chicken Egg	Right Handed	Blue Blocky Hair	Cat Meowing
Dream	Nether Brewing	Ender Pearl Teleport	Right Handed	Orange Blocky Hair	Sweet Berries
Tommy	Redstone Engineering	Golden Apple Eat	Right Handed	Blue Blocky Hair	Cat Meowing
Hermit	Nether Brewing	Golden Apple Eat	Right Handed	Blue Blocky Hair	Cat Meowing
Tubbo	Elytra Flying	Wolf Taming	Left Handed	Orange Blocky Hair	Cat Meowing
Aphmau	Sword Enchanting	Ender Pearl Teleport	Right Handed	Brown Blocky Hair	Sweet Berries
George	Obsidian Mining	Totem of Undying	Right Handed	Orange Blocky Hair	Cat Meowing
Alex	Redstone Engineering	Wolf Taming	Right Handed	Blue Blocky Hair	Cat Meowing
Ranboo	Sword Enchanting	Wolf Taming	Left Handed	Orange Blocky Hair	Cat Meowing
DanTDM	Elytra Flying	Ender Pearl Teleport	Right Handed	Orange Blocky Hair	Cat Meowing
False	Elytra Flying	Spawn Chicken Egg	Left Handed	Brown Blocky Hair	Sweet Berries
Techno	Elytra Flying	Golden Apple Eat	Right Handed	Orange Blocky Hair	Sweet Berries
Beef	Obsidian Mining	Golden Apple Eat	Left Handed	Orange Blocky Hair	Sweet Berries
Spark	Sword Enchanting	Golden Apple Eat	Right Handed	Orange Blocky Hair	Cat Meowing
Philza	Sword Enchanting	Wolf Taming	Right Handed	Orange Blocky Hair	Sweet Berries
Captain	Elytra Flying	Spawn Chicken Egg	Right Handed	Orange Blocky Hair	Cat Meowing
Sapnap	Obsidian Mining	Wolf Taming	Right Handed	Blue Blocky Hair	Sweet Berries
Lizzie	Nether Brewing	Golden Apple Eat	Right Handed	Orange Blocky Hair	Cat Meowing
Steve	Obsidian Mining	Ender Pearl Teleport	Left Handed	Orange Blocky Hair	Sweet Berries

CLUE 1 Place value

Steve inspects the ruined trophy room. A digital screen shows a damaged block ID, but only the digit in the tens place is still glowing.

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

T																T
5000	3000	60	100	800	1000	1000	300	800	700	9000	70	60	500	700	70	5000

					T		T									
3000	300	100	60	300	5000	70	5000	60	2000	70	900	40	700	9000	4000	800

What is the value of the 5 in 15,831? → **T**

What is the value of the 4 in 4,097? → **Y**

What is the value of the 8 in 7,860? → **I**

What is the value of the 9 in 984? → **F**

What is the value of the 7 in 5,705? → **N**

What is the value of the 6 in 968? → **E**

What is the value of the 1 in 153? → **V**

What is the value of the 9 in 29,030? → **D**

What is the value of the 1 in 1,300? → **L**

What is the value of the 3 in 73,580? → **H**

What is the value of the 2 in 2,437? → **M**

What is the value of the 3 in 367? → **A**

What is the value of the 4 in 143? → **U**

What is the value of the 7 in 473? → **O**

What is the value of the 5 in 7,541? → **S**

What is the value of the 3 in 2,632? → **G**

Scratch space:

CLUE 2 Addition

Alex follows a trail of dropped items down a dark cave shaft. We must add the torches and the blocks of cobblestone together to find the path.

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

T															T				
9257	5925	4882	5560	5815	7063	7063	4631	5815	4150	5912	4128	4882	5873	9257	5925	4882	5815	5914	

				T					T					
5914	5815	6211	5925	9257	5925	4631	4150	5873	9257	5867	5341	5815	4150	4882

$4229 + 5028 = \square \rightarrow \text{T}$	$2355 + 3518 = \square \rightarrow \text{D}$	$2029 + 2602 = \square \rightarrow \text{A}$
$2490 + 3325 = \square \rightarrow \text{I}$	$2279 + 1849 = \square \rightarrow \text{S}$	$3319 + 2593 = \square \rightarrow \text{U}$
$2915 + 3296 = \square \rightarrow \text{G}$	$2786 + 2555 = \square \rightarrow \text{M}$	$2170 + 3697 = \square \rightarrow \text{O}$
$2948 + 2966 = \square \rightarrow \text{R}$	$2076 + 2074 = \square \rightarrow \text{N}$	$2141 + 4922 = \square \rightarrow \text{L}$
$3022 + 2538 = \square \rightarrow \text{V}$	$2299 + 2583 = \square \rightarrow \text{E}$	$2948 + 2977 = \square \rightarrow \text{H}$

Scratch space:

CLUE 3 Rounding

A redstone compass tracker detects the thief's coordinate signal, but it only displays values rounded to the nearest ten.

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

T																	
3700	20	900	2900	3000	500	500	9000	3000	200	130	50	200	700	9000	90	9000	430
																	T
110	130	7000	1300	9000	1300	900	7000	90	3000	200	290	1700	9000	3700			

Round 3,674 to the nearest hundred → **T**

Round 1,297 to the nearest hundred → **M**

Round 2,898 to the nearest hundred → **V**

Round 110 to the nearest ten → **F**

Round 457 to the nearest hundred → **L**

Round 134 to the nearest ten → **R**

Round 2,909 to the nearest thousand → **I**

Round 47 to the nearest ten → **U**

Round 434 to the nearest ten → **Y**

Round 16 to the nearest ten → **H**

Round 7,277 to the nearest thousand → **O**

Round 9,221 to the nearest thousand → **A**

Round 93 to the nearest ten → **W**

Round 197 to the nearest hundred → **N**

Round 700 to the nearest hundred → **S**

Round 290 to the nearest ten → **G**

Round 1,654 to the nearest hundred → **C**

Round 924 to the nearest hundred → **E**

Scratch space:

CLUE 4
Fractions of a number

The local villagers want to help, but they need us to calculate a fraction of our emerald supply to pay for their maps.

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

O																			
2	10	8	16	18	4	24	8	26	10	14	8	39	19	10	8	5	5	4	17

									O	O	
26	16	8	19	10	8	5	17	2	2	10	

$2/10 \text{ of } 10 = \square \rightarrow \boxed{\text{O}}$

$5/10 \text{ of } 28 = \square \rightarrow \boxed{\text{W}}$

$2/10 \text{ of } 130 = \square \rightarrow \boxed{\text{I}}$

$3/8 \text{ of } 104 = \square \rightarrow \boxed{\text{S}}$

$2/10 \text{ of } 50 = \square \rightarrow \boxed{\text{R}}$

$2/3 \text{ of } 12 = \square \rightarrow \boxed{\text{A}}$

$2/10 \text{ of } 95 = \square \rightarrow \boxed{\text{T}}$

$2/10 \text{ of } 20 = \square \rightarrow \boxed{\text{E}}$

$1/5 \text{ of } 25 = \square \rightarrow \boxed{\text{P}}$

$1/6 \text{ of } 96 = \square \rightarrow \boxed{\text{N}}$

$1/2 \text{ of } 34 = \square \rightarrow \boxed{\text{D}}$

$1/5 \text{ of } 90 = \square \rightarrow \boxed{\text{G}}$

$6/8 \text{ of } 32 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

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

We must share a fraction of our oak wood blocks with the village builders so they can repair the broken wall before we leave.

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:

$1/10 \text{ of } 10 = \boxed{}$

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

$2/4 \text{ of } 6 = \boxed{}$

$3/6 \text{ of } 10 = \boxed{}$

$4/8 \text{ of } 8 = \boxed{}$

$1/5 \text{ of } 55 = \boxed{}$

$2/6 \text{ of } 21 = \boxed{}$

$6/10 \text{ of } 10 = \boxed{}$

$2/5 \text{ of } 25 = \boxed{}$

$1/5 \text{ of } 45 = \boxed{}$

$6/10 \text{ of } 20 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain crafts an enchanted sword, then eats a shiny golden apple.
2. The villain brews a strength potion, then teleports away using an ender pearl.
3. The villain builds a giant redstone door, then eats a shiny golden apple.
4. The villain flies with their new elytra, then throws a chicken egg to escape.
5. The villain flies with their new elytra, then eats a shiny golden apple.
6. The villain mines a vein of diamonds, then throws a chicken egg to escape.
7. The villain flies with their new elytra, then holds up a totem of undying.
8. The villain brews a strength potion, then throws a chicken egg to escape.
9. The villain mines a vein of diamonds, then eats a shiny golden apple.
10. The villain builds a giant redstone door, then throws a chicken egg to escape.
11. The villain brews a strength potion, then eats a shiny golden apple.
12. The villain builds a giant redstone door, then teleports away using an ender pearl.

Answer Key

The Mystery of the Missing Dragon Egg

Culprit: Captain

Elytra Flying · Spawn Chicken Egg · Right Handed · Orange Blocky Hair · Cat Meowing

Trail: Start 21 → Clue 1 20 → Clue 2 15 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT HAVE A TOTEM OF UNDYING"

What is the value of the 5 in 15,831? = 5000 (T) · What is the value of the 4 in 4,097? = 4000 (Y) · What is the value of the 8 in 7,860? = 800 (I) · What is the value of the 9 in 984? = 900 (F) · What is the value of the 7 in 5,705? = 700 (N) · What is the value of the 6 in 968? = 60 (E) · What is the value of the 1 in 153? = 100 (V) · What is the value of the 9 in 29,030? = 9000 (D) · What is the value of the 1 in 1,300? = 1000 (L) · What is the value of the 3 in 73,580? = 3000 (H) · What is the value of the 2 in 2,437? = 2000 (M) · What is the value of the 3 in 367? = 300 (A) · What is the value of the 4 in 143? = 40 (U) · What is the value of the 7 in 473? = 70 (O) · What is the value of the 5 in 7,541? = 500 (S) · What is the value of the 3 in 2,632? = 30 (G)

Clue 2 (Addition): "THE VILLAIN USED THEIR RIGHT HAND TO MINE"

4229 + 5028 = 9257 (T) · 2355 + 3518 = 5873 (D) · 2029 + 2602 = 4631 (A) · 2490 + 3325 = 5815 (I) · 2279 + 1849 = 4128 (S) · 3319 + 2593 = 5912 (U) · 2915 + 3296 = 6211 (G) · 2786 + 2555 = 5341 (M) · 2170 + 3697 = 5867 (O) · 2948 + 2966 = 5914 (R) · 2076 + 2074 = 4150 (N) · 2141 + 4922 = 7063 (L) · 3022 + 2538 = 5560 (V) · 2299 + 2583 = 4882 (E) · 2948 + 2977 = 5925 (H)

Clue 3 (Rounding): "THE VILLAIN RUNS AWAY FROM A MEOWING CAT"

Round 3,674 to the nearest hundred = 3700 (T) · Round 1,297 to the nearest hundred = 1300 (M) · Round 2,898 to the nearest hundred = 2900 (V) · Round 110 to the nearest ten = 110 (F) · Round 457 to the nearest hundred = 500 (L) · Round 134 to the nearest ten = 130 (R) · Round 2,909 to the nearest thousand = 3000 (I) · Round 47 to the nearest ten = 50 (U) · Round 434 to the nearest ten = 430 (Y) · Round 16 to the nearest ten = 20 (H) · Round 7,277 to the nearest thousand = 7000 (O) · Round 9,221 to the nearest thousand = 9000 (A) · Round 93 to the nearest ten = 90 (W) · Round 197 to the nearest hundred = 200 (N) · Round 700 to the nearest hundred = 700 (S) · Round 290 to the nearest ten = 290 (G) · Round 1,654 to the nearest hundred = 1700 (C) · Round 924 to the nearest hundred = 900 (E)

Clue 4 (Fractions of a number): "ORANGE HAIR WAS TRAPPED IN A TRAPDOOR"

2/10 of 10 = 2 (O) · 5/10 of 28 = 14 (W) · 2/10 of 130 = 26 (I) · 3/8 of 104 = 39 (S) · 2/10 of 50 = 10 (R) · 2/3 of 12 = 8 (A) · 2/10 of 95 = 19 (T) · 2/10 of 20 = 4 (E) · 1/5 of 25 = 5 (P) · 1/6 of 96 = 16 (N) · 1/2 of 34 = 17 (D) · 1/5 of 90 = 18 (G) · 6/8 of 32 = 24 (H)

Clue 5 (Fractions of a number): surviving statement is box 8 → Captain

1/10 of 10 = 1 · 1/3 of 6 = 2 · 2/4 of 6 = 3 · 3/6 of 10 = 5 · 4/8 of 8 = 4 · 1/5 of 55 = 11 · 2/6 of 21 = 7 · 6/10 of 10 = 6 · 2/5 of 25 = 10 · 1/5 of 45 = 9 · 6/10 of 20 = 12