



The Case of the Missing Mew-seum Diamond

Grade 3 math · Addition, Place value, Subtraction, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Oh no! The legendary Golden Salmon Block has been snatched from the craft-room of the Craftia Kitty Mew-seum! Only a master builder with quick paws could have bypassed the redstone lasers. Detective, grab your map and your milk bowl-we have a mystery to solve!

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 Prowling Purr-petrator is _____

Possible suspects

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

NAME	MAIN POWER	EXTRA POWER	OBSERVED TELL	EAR ACCESSORY	SILLY WEAKNESS
Shubble	fast wall climbing	golden carrot snack	left handed block placer	ginger cat ears	rustling treat bag
Steve	night vision brewing	enchanted fishing rod	left handed block placer	ginger cat ears	splash water potion
DanTDM	creeper taming	diamond boots	left handed block placer	calico hair clip	shiny laser pointer
Aphmau	super high jumping	netherite pickaxe	right handed block placer	calico hair clip	shiny laser pointer
Scott	fast wall climbing	golden carrot snack	left handed block placer	tuxedo cat hood	shiny laser pointer
Mumbo	night vision brewing	golden carrot snack	right handed block placer	calico hair clip	rustling treat bag
Martyn	night vision brewing	diamond boots	left handed block placer	tuxedo cat hood	splash water potion
Tubbo	ender pearl tossing	netherite pickaxe	right handed block placer	calico hair clip	rustling treat bag
Grian	fast wall climbing	golden carrot snack	right handed block placer	calico hair clip	rustling treat bag
Lizzie	creeper taming	enchanted fishing rod	right handed block placer	tuxedo cat hood	splash water potion
Stampy	night vision brewing	diamond boots	left handed block placer	tuxedo cat hood	shiny laser pointer
Katherine	creeper taming	golden carrot snack	right handed block placer	tuxedo cat hood	rustling treat bag
Tommy	night vision brewing	diamond boots	right handed block placer	ginger cat ears	rustling treat bag
Scar	ender pearl tossing	gliding elytra wings	right handed block placer	calico hair clip	rustling treat bag
Jimmy	night vision brewing	golden carrot snack	left handed block placer	calico hair clip	rustling treat bag
Wilbur	ender pearl tossing	diamond boots	right handed block placer	tuxedo cat hood	rustling treat bag
Oli	night vision brewing	golden carrot snack	left handed block placer	tuxedo cat hood	shiny laser pointer
Alex	fast wall climbing	enchanted fishing rod	right handed block placer	tuxedo cat hood	rustling treat bag
Shelby	night vision brewing	golden carrot snack	left handed block placer	ginger cat ears	shiny laser pointer
Sparklez	creeper taming	enchanted fishing rod	left handed block placer	tuxedo cat hood	shiny laser pointer
Nikki	night vision brewing	enchanted fishing rod	right handed block placer	calico hair clip	rustling treat bag

CLUE 1 Addition

We count the spilled fish bones on the floor. Adding them together reveals the first clue.

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

T														
691	937	467	551	752	411	411	737	752	959	937	737	229	959	815

									T					
594	411	752	773	752	959	594	467	411	324	691	831	737	405	752

$434 + 257 = \square \rightarrow \text{T}$

$443 + 294 = \square \rightarrow \text{A}$

$478 + 337 = \square \rightarrow \text{O}$

$294 + 458 = \square \rightarrow \text{I}$

$254 + 213 = \square \rightarrow \text{E}$

$533 + 240 = \square \rightarrow \text{D}$

$522 + 309 = \square \rightarrow \text{R}$

$370 + 224 = \square \rightarrow \text{G}$

$249 + 162 = \square \rightarrow \text{L}$

$167 + 157 = \square \rightarrow \text{Y}$

$134 + 95 = \square \rightarrow \text{S}$

$249 + 156 = \square \rightarrow \text{W}$

$610 + 327 = \square \rightarrow \text{H}$

$336 + 623 = \square \rightarrow \text{N}$

$352 + 199 = \square \rightarrow \text{V}$

Scratch space:

CLUE 2

A coded block lock blocks the exit. Looking closely at the place value digits reveals the next clue.

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

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The first row contains 15 boxes, and the second row contains 18 boxes. The numbers in the boxes are as follows:

Row 1 (15 boxes): 5000, 500, 80, 20, 200, 20, 300, 800, 70, 900, 70, 8000, 9000, 2000, 30, 600.

Row 2 (18 boxes): 7000, 9000, 300, 30, 500, 800, 80, 800, 2000, 200, 900, 70, 2000, 800, 30, 300, 90, 900, 5000, 300.

The first box in the first row (5000) and the 19th box in the second row (5000) are highlighted with an orange background and a red 'R'.

What is the value of the 5 in 25,060? → **R**

What is the value of the 7 in 7,102? → **P**

What is the value of the 2 in 9,253? → **T**

What is the value of the 2 in 4,420? → **H**

What is the value of the 7 in 3,374? → **D**

What is the value of the 8 in 2,833? → **N**

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

What is the value of the 3 in 238? → **C**

What is the value of the 8 in 9,980? → **G**

What is the value of the 9 in 49,883? → **L**

What is the value of the 9 in 392? → **M**

What is the value of the 6 in 655? → **K**

What is the value of the 8 in 98,593? → **B**

What is the value of the 2 in 2,574? →

What is the value of the 9 in 967? → **E**

What is the value of the 5 in 571? →

Scratch space:

Subtraction

Some yarn balls are missing from the basket. Subtracting the stolen ones helps us find this clue.

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

659 884 283 320 876 175 175 206 876 794 517 659 705 423 423 283 216 289 705 523

206 523 814 517 659 175 876 794 189 659 523 283 206 659 582 206 189

$780 - 121 = \boxed{} \rightarrow \mathbf{T}$

$$353 - 147 = \boxed{} \rightarrow \mathbf{A}$$

$$1017 - 223 = \boxed{} \rightarrow \mathbf{N}$$

$$1066 - 361 = \boxed{} \rightarrow \boxed{0}$$

$420 - 137 = \boxed{} \rightarrow \mathbf{E}$

$$1143 - 267 = \boxed{} \rightarrow \boxed{}$$

$925 - 343 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$$741 - 318 = \boxed{} \rightarrow \boxed{\text{P}}$$

$753 - 236 = \boxed{} \rightarrow \boxed{\text{S}}$

$558 - 269 = \boxed{} \rightarrow \boxed{\text{F}}$

$279 - 63 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$$464 - 275 = \boxed{} \rightarrow \boxed{\text{G}}$$

$816 - 293 = \boxed{} \rightarrow \boxed{\text{R}}$

$$370 - 195 = \boxed{} \rightarrow \boxed{\text{L}}$$

$952 - 138 = \boxed{} \rightarrow \boxed{\text{U}}$

$1234 - 350 = \boxed{} \rightarrow \boxed{\text{H}}$

$$478 - 158 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

Scratch space:

CLUE 4
Rounding

A redstone scanner screen flashes bright numbers. Rounding the weight to the nearest ten unlocks this clue.

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

A		A							A								A	
500	3000	500	900	40	3000	4000	300	500	40	5000	3000	900	40	600	6000	500	800	
80	5000	4000	600	600	8000	80	40	7000	60	300	8000	80	40	5000	60			

Round 504 to the nearest hundred → **A**

Round 64 to the nearest ten → **T**

Round 303 to the nearest hundred → **H**

Round 5,161 to the nearest thousand → **R**

Round 84 to the nearest ten → **D**

Round 3,695 to the nearest thousand → **O**

Round 620 to the nearest hundred → **P**

Round 2,734 to the nearest thousand → **C**

Round 6,788 to the nearest thousand → **N**

Round 7,685 to the nearest thousand → **E**

Round 938 to the nearest hundred → **L**

Round 44 to the nearest ten → **I**

Round 821 to the nearest hundred → **S**

Round 6,003 to the nearest thousand → **W**

Scratch space:

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

We share a pile of cat treats equally among the kittens. Dividing them fairly gives us our final clue.

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:

$36 \div 12 = \boxed{}$

$30 \div 3 = \boxed{}$

$72 \div 8 = \boxed{}$

$11 \div 1 = \boxed{}$

$50 \div 10 = \boxed{}$

$42 \div 7 = \boxed{}$

$16 \div 4 = \boxed{}$

$32 \div 4 = \boxed{}$

$11 \div 11 = \boxed{}$

$4 \div 2 = \boxed{}$

$70 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain teleported into the cozy cat cafe, then knocked over the tower of wool blocks.
2. The villain teleported into the cozy cat cafe, then gobbled up the giant cake block.
3. The villain dashed through the dark jungle biome, then gobbled up the giant cake block.
4. The villain scaled the tall oak wood treehouse, then freed all the tamed calico kittens.
5. The villain sneaked past the sleeping iron golem, then gobbled up the giant cake block.
6. The villain sneaked past the sleeping iron golem, then swiped the sacred golden fish trophy.
7. The villain sneaked past the sleeping iron golem, then scattered shiny blue diamonds everywhere.
8. The villain dashed through the dark jungle biome, then knocked over the tower of wool blocks.
9. The villain dashed through the dark jungle biome, then scattered shiny blue diamonds everywhere.
10. The villain sneaked past the sleeping iron golem, then knocked over the tower of wool blocks.
11. The villain crafted a secret tunnel under the base, then knocked over the tower of wool blocks.
12. The villain scaled the tall oak wood treehouse, then gobbled up the giant cake block.

Answer Key

The Case of the Missing Mew-seum Diamond

Culprit: Grian

fast wall climbing · golden carrot snack · right handed block placer · calico hair clip · rustling treat bag

Trail: Start 21 → Clue 1 20 → Clue 2 10 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN HAS NO GLIDING ELYTRA WINGS"

$434 + 257 = 691$ (T) · $443 + 294 = 737$ (A) · $478 + 337 = 815$ (O) · $294 + 458 = 752$ (I) · $254 + 213 = 467$ (E) · $533 + 240 = 773$ (D) · $522 + 309 = 831$ (R) · $370 + 224 = 594$ (G) · $249 + 162 = 411$ (L) · $167 + 157 = 324$ (Y) · $134 + 95 = 229$ (S) · $249 + 156 = 405$ (W) · $610 + 327 = 937$ (H) · $336 + 623 = 959$ (N) · $352 + 199 = 551$ (V)

Clue 2 (Place value): "RIGHT HANDED BLOCK PLACING NOTED ON CAMERA"

What is the value of the 5 in 25,060? = 5000 (R) · What is the value of the 7 in 7,102? = 7000 (P) · What is the value of the 2 in 9,253? = 200 (T) · What is the value of the 2 in 4,420? = 20 (H) · What is the value of the 7 in 3,374? = 70 (D) · What is the value of the 8 in 2,833? = 800 (N) · What is the value of the 3 in 367? = 300 (A) · What is the value of the 3 in 238? = 30 (C) · What is the value of the 8 in 9,980? = 80 (G) · What is the value of the 9 in 49,883? = 9000 (L) · What is the value of the 9 in 392? = 90 (M) · What is the value of the 6 in 655? = 600 (K) · What is the value of the 8 in 98,593? = 8000 (B) · What is the value of the 2 in 2,574? = 2000 (O) · What is the value of the 9 in 967? = 900 (E) · What is the value of the 5 in 571? = 500 (I)

Clue 3 (Subtraction): "THE VILLAIN STOPPED FOR A RUSTLING TREAT BAG"

$780 - 121 = 659$ (T) · $353 - 147 = 206$ (A) · $1017 - 223 = 794$ (N) · $1066 - 361 = 705$ (O) · $420 - 137 = 283$ (E) · $1143 - 267 = 876$ (I) · $925 - 343 = 582$ (B) · $741 - 318 = 423$ (P) · $753 - 236 = 517$ (S) · $558 - 269 = 289$ (F) · $279 - 63 = 216$ (D) · $464 - 275 = 189$ (G) · $816 - 293 = 523$ (R) · $370 - 195 = 175$ (L) · $952 - 138 = 814$ (U) · $1234 - 350 = 884$ (H) · $478 - 158 = 320$ (V)

Clue 4 (Rounding): "A CALICO HAIR CLIP WAS DROPPED IN THE DIRT"

Round 504 to the nearest hundred = 500 (A) · Round 64 to the nearest ten = 60 (T) · Round 303 to the nearest hundred = 300 (H) · Round 5,161 to the nearest thousand = 5000 (R) · Round 84 to the nearest ten = 80 (D) · Round 3,695 to the nearest thousand = 4000 (O) · Round 620 to the nearest hundred = 600 (P) · Round 2,734 to the nearest thousand = 3000 (C) · Round 6,788 to the nearest thousand = 7000 (N) · Round 7,685 to the nearest thousand = 8000 (E) · Round 938 to the nearest hundred = 900 (L) · Round 44 to the nearest ten = 40 (I) · Round 821 to the nearest hundred = 800 (S) · Round 6,003 to the nearest thousand = 6000 (W)

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

$36 \div 12 = 3$ · $30 \div 3 = 10$ · $72 \div 8 = 9$ · $11 \div 1 = 11$ · $50 \div 10 = 5$ · $42 \div 7 = 6$ · $16 \div 4 = 4$ · $32 \div 4 = 8$ · $11 \div 11 = 1$ · $4 \div 2 = 2$ · $70 \div 10 = 7$