



The Mystery of the Diamond Salmon

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

Detective: _____ Date: _____

Someone snuck into the Crafty Paw Vault and snatched the legendary Diamond Salmon! Detective Whiskers needs your math skills to decode clues and catch 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 Crafty Cat Burglar is _____

Possible suspects

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

NAME	MAIN GEAR	SPECIAL ITEM	DOMINANT PAW	FUR STYLE	BIG FEAR
Oliver	Ender Pearl	Fish Bucket	Left Pawed	Calico Patch	Creeper Hiss
Luna	Diamond Pickaxe	Catnip Potion	Left Pawed	Calico Patch	Squeaky Mouse
Stampy	Ender Pearl	Yarn Bomb	Left Pawed	Orange Tabby	Squeaky Mouse
Penny	Slime Boots	Yarn Bomb	Right Pawed	Black Tuxedo	Creeper Hiss
Redstone	Golden Sword	Milk Bucket	Right Pawed	Black Tuxedo	Water Bucket
Felix	Golden Sword	Milk Bucket	Left Pawed	Orange Tabby	Squeaky Mouse
Socks	Slime Boots	Feather Wand	Left Pawed	Orange Tabby	Squeaky Mouse
DanTDM	Slime Boots	Fish Bucket	Right Pawed	Orange Tabby	Squeaky Mouse
Tabitha	Ender Pearl	Yarn Bomb	Right Pawed	Black Tuxedo	Squeaky Mouse
Jasper	Redstone Spark	Fish Bucket	Left Pawed	Orange Tabby	Creeper Hiss
Cleo	Diamond Pickaxe	Catnip Potion	Right Pawed	Black Tuxedo	Squeaky Mouse
Smokey	Diamond Pickaxe	Milk Bucket	Left Pawed	Orange Tabby	Creeper Hiss
Ziggy	Golden Sword	Catnip Potion	Left Pawed	Orange Tabby	Squeaky Mouse
Cobble	Diamond Pickaxe	Catnip Potion	Left Pawed	Orange Tabby	Creeper Hiss
Pumpkin	Redstone Spark	Yarn Bomb	Left Pawed	Orange Tabby	Squeaky Mouse
Hazel	Slime Boots	Catnip Potion	Left Pawed	Black Tuxedo	Water Bucket
Pixel	Slime Boots	Catnip Potion	Left Pawed	Calico Patch	Creeper Hiss
Steve	Ender Pearl	Yarn Bomb	Left Pawed	Black Tuxedo	Squeaky Mouse
Milo	Ender Pearl	Catnip Potion	Right Pawed	Orange Tabby	Creeper Hiss
Mittens	Slime Boots	Milk Bucket	Left Pawed	Calico Patch	Creeper Hiss
Whiskers	Ender Pearl	Catnip Potion	Left Pawed	Calico Patch	Water Bucket

CLUE 1

The pixel scoreboard only displays rounded numbers, so Detective Whiskers must round to read the hint.

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 box in the top row and the 10th box in the bottom row are highlighted in orange and labeled 'T'.

Top row numbers: 1300, 130, 70, 2300, 30, 50, 50, 900, 30, 1100, 2000, 2900, 70, 300, 1100, 2900, 1300.

Bottom row numbers: 5000, 300, 70, 900, 290, 70, 900, 1300, 130, 70, 7000, 500, 900, 1100, 2000.

Round 1,313 to the nearest hundred $\rightarrow$ **T**

Round 4,618 to the nearest thousand $\rightarrow$ **U**

Round 51 to the nearest ten $\rightarrow$ **L**

Round 6,831 to the nearest thousand $\rightarrow$ **R**

Round 293 to the nearest ten $\rightarrow$ **F**

Round 905 to the nearest hundred $\rightarrow$ **A**

Round 2,323 to the nearest hundred $\rightarrow$ **V**

Round 1,609 to the nearest thousand $\rightarrow$ **D**

Round 131 to the nearest ten $\rightarrow$ **H**

Round 33 to the nearest ten $\rightarrow$

Round 291 to the nearest hundred → **S**

Round 489 to the nearest hundred → **W**

Round 2,909 to the nearest hundred $\rightarrow$

Round 1,141 to the nearest hundred → **N**

Round 74 to the nearest ten → **E**

Scratch space:

CLUE 2 Addition

To count the extra fish treats collected in the storehouse, the squad tallies the total blocks.

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

T															T					
8390	2773	2562	4686	3222	2480	2480	9567	3222	7856	6053	7538	2562	4459	8390	2773	2562	3222	5732		

			T				T						
2480	2562	6265	8390	8509	9567	8116	8390	9545	8482	3222	7856	2562	

$3958 + 4432 = \square \rightarrow \mathbf{T}$	$3927 + 2338 = \square \rightarrow \mathbf{F}$	$3104 + 6463 = \square \rightarrow \mathbf{A}$
$3225 + 5257 = \square \rightarrow \mathbf{M}$	$2628 + 5488 = \square \rightarrow \mathbf{W}$	$1692 + 1530 = \square \rightarrow \mathbf{I}$
$4089 + 1964 = \square \rightarrow \mathbf{U}$	$1567 + 2892 = \square \rightarrow \mathbf{D}$	$3351 + 5158 = \square \rightarrow \mathbf{P}$
$1112 + 1450 = \square \rightarrow \mathbf{E}$	$1153 + 1327 = \square \rightarrow \mathbf{L}$	$1001 + 1772 = \square \rightarrow \mathbf{H}$
$1447 + 3239 = \square \rightarrow \mathbf{V}$	$3969 + 1763 = \square \rightarrow \mathbf{R}$	$4793 + 3063 = \square \rightarrow \mathbf{N}$
$3656 + 3882 = \square \rightarrow \mathbf{S}$	$4251 + 5294 = \square \rightarrow \mathbf{O}$	

Scratch space:

CLUE 3

Subtraction

Comparing the mined blocks before and after the raid reveals how many were stolen.

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

T									T												T
6270	1152	4755	1445	1009	1445	7859	4755	4951	6270	7859	3461	8706	1247	4951	4374	4755	7985	3461	6270		
3461	1445	2659	1009	4755	3461	4374	4922	5006	5792	1009	1445	4755									

$8045 - 1775 = \square \rightarrow \text{[T]}$

$7401 - 2395 = \square \rightarrow \text{[M]}$

$3600 - 2155 = \square \rightarrow \text{[S]}$

$3887 - 426 = \square \rightarrow \text{[A]}$

$11547 - 3688 = \square \rightarrow \text{[P]}$

$4653 - 279 = \square \rightarrow \text{[K]}$

$10643 - 2658 = \square \rightarrow \text{[D]}$

$2811 - 1564 = \square \rightarrow \text{[I]}$

$8678 - 3727 = \square \rightarrow \text{[C]}$

$9455 - 4700 = \square \rightarrow \text{[E]}$

$9871 - 4079 = \square \rightarrow \text{[O]}$

$7066 - 2144 = \square \rightarrow \text{[Y]}$

$13565 - 4859 = \square \rightarrow \text{[N]}$

$2826 - 1817 = \square \rightarrow \text{[U]}$

$3591 - 932 = \square \rightarrow \text{[Q]}$

$5513 - 4361 = \square \rightarrow \text{[H]}$

Scratch space:

Multiplication facts (1-12)

The guard cats check rows of chest slots to calculate the total stolen loot.

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 top row contains 18 boxes, with the 10th and 11th boxes highlighted in orange and labeled 'B'. The bottom row contains 15 boxes. Below each box is a number.

Box Index	Top Row Number	Bottom Row Number
1	30	7
2	110	5
3	6	66
4	4	40
5	48	44
6	55	56
7	44	63
8	110	108
9	5	5
10	63	55
11	4	66
12	16	96
13	55	16
14	5	63
15	30	16
16	30	
17	11	
18		

$6 \times 5 = \boxed{} \rightarrow \boxed{\text{B}}$

$10 \times 4 = \square \rightarrow \mathbf{F}$

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

$$11 \times 1 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$11 \times 6 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$5 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$2 \times 2 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$$4 \times 11 = \boxed{} \rightarrow \boxed{0}$$

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

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

$1 \times 7 = \square \rightarrow \boxed{\mathbf{W}}$

$4 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{E}}$

$$2 \times 3 = \boxed{} \rightarrow \boxed{1}$$

$9 \times 7 = \square \rightarrow \boxed{\mathbf{N}}$

$8 \times 7 = \boxed{} \rightarrow \boxed{\text{U}}$

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

$12 \times 4 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

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

Dividing the fish treats equally among the cat patrol leads to the next secret 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:

$44 \div 11 = \boxed{}$

$81 \div 9 = \boxed{}$

$132 \div 12 = \boxed{}$

$64 \div 8 = \boxed{}$

$108 \div 9 = \boxed{}$

$7 \div 7 = \boxed{}$

$40 \div 4 = \boxed{}$

$12 \div 4 = \boxed{}$

$48 \div 8 = \boxed{}$

$77 \div 11 = \boxed{}$

$8 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain teleported straight into the cat vault, then distracted guards with a feather wand.
2. The villain mined through the obsidian bank, then brewed a sneaky catnip potion.
3. The villain sliced open the chest lock, then scooped up the diamond salmon bucket.
4. The villain zapped the redstone security system, then tangled the traps with a yarn bomb.
5. The villain sliced open the chest lock, then brewed a sneaky catnip potion.
6. The villain zapped the redstone security system, then chugged a fresh milk bucket.
7. The villain mined through the obsidian bank, then chugged a fresh milk bucket.
8. The villain bounced high over the fences, then distracted guards with a feather wand.
9. The villain teleported straight into the cat vault, then tangled the traps with a yarn bomb.
10. The villain sliced open the chest lock, then tangled the traps with a yarn bomb.
11. The villain sliced open the chest lock, then chugged a fresh milk bucket.
12. The villain mined through the obsidian bank, then scooped up the diamond salmon bucket.

Answer Key

The Mystery of the Diamond Salmon

Culprit: Ziggy

Golden Sword · Catnip Potion · Left Pawed · Orange Tabby · Squeaky Mouse

Trail: Start 21 → Clue 1 20 → Clue 2 14 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE A FEATHER WAND"

Round 1,313 to the nearest hundred = 1300 (T) · Round 4,618 to the nearest thousand = 5000 (U) · Round 51 to the nearest ten = 50 (L) · Round 6,831 to the nearest thousand = 7000 (R) · Round 293 to the nearest ten = 290 (F) · Round 905 to the nearest hundred = 900 (A) · Round 2,323 to the nearest hundred = 2300 (V) · Round 1,609 to the nearest thousand = 2000 (D) · Round 131 to the nearest ten = 130 (H) · Round 33 to the nearest ten = 30 (I) · Round 291 to the nearest hundred = 300 (S) · Round 489 to the nearest hundred = 500 (W) · Round 2,909 to the nearest hundred = 2900 (O) · Round 1,141 to the nearest hundred = 1100 (N) · Round 74 to the nearest ten = 70 (E)

Clue 2 (Addition): "THE VILLAIN USED THEIR LEFT PAW TO MINE"

$3958 + 4432 = 8390$ (T) · $3927 + 2338 = 6265$ (F) · $3104 + 6463 = 9567$ (A) · $3225 + 5257 = 8482$ (M) · $2628 + 5488 = 8116$ (W) · $1692 + 1530 = 3222$ (I) · $4089 + 1964 = 6053$ (U) · $1567 + 2892 = 4459$ (D) · $3351 + 5158 = 8509$ (P) · $1112 + 1450 = 2562$ (E) · $1153 + 1327 = 2480$ (L) · $1001 + 1772 = 2773$ (H) · $1447 + 3239 = 4686$ (V) · $3969 + 1763 = 5732$ (R) · $4793 + 3063 = 7856$ (N) · $3656 + 3882 = 7538$ (S) · $4251 + 5294 = 9545$ (O)

Clue 3 (Subtraction): "THE SUSPECT PANICKED AT A SQUEAKY MOUSE"

$8045 - 1775 = 6270$ (T) · $7401 - 2395 = 5006$ (M) · $3600 - 2155 = 1445$ (S) · $3887 - 426 = 3461$ (A) · $11547 - 3688 = 7859$ (P) · $4653 - 279 = 4374$ (K) · $10643 - 2658 = 7985$ (D) · $2811 - 1564 = 1247$ (I) · $8678 - 3727 = 4951$ (C) · $9455 - 4700 = 4755$ (E) · $9871 - 4079 = 5792$ (O) · $7066 - 2144 = 4922$ (Y) · $13565 - 4859 = 8706$ (N) · $2826 - 1817 = 1009$ (U) · $3591 - 932 = 2659$ (Q) · $5513 - 4361 = 1152$ (H)

Clue 4 (Multiplication facts (1-12)): "BRIGHT ORANGE TABBY FUR WAS FOUND AT SCENE"

$6 \times 5 = 30$ (B) · $10 \times 4 = 40$ (F) · $10 \times 11 = 110$ (R) · $11 \times 1 = 11$ (Y) · $11 \times 6 = 66$ (S) · $5 \times 1 = 5$ (A) · $2 \times 2 = 4$ (G) · $4 \times 11 = 44$ (O) · $12 \times 9 = 108$ (D) · $12 \times 8 = 96$ (C) · $1 \times 7 = 7$ (W) · $4 \times 4 = 16$ (E) · $2 \times 3 = 6$ (I) · $9 \times 7 = 63$ (N) · $8 \times 7 = 56$ (U) · $5 \times 11 = 55$ (T) · $12 \times 4 = 48$ (H)

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

$44 \div 11 = 4$ · $81 \div 9 = 9$ · $132 \div 12 = 11$ · $64 \div 8 = 8$ · $108 \div 9 = 12$ · $7 \div 7 = 1$ · $40 \div 4 = 10$ · $12 \div 4 = 3$ · $48 \div 8 = 6$ · $77 \div 11 = 7$ · $8 \div 4 = 2$