



The Whisker Block Mystery

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

Detective: _____ Date: _____

A tricky builder swapped the Grand Builder's golden fish statue with cobblestone! Solve the math clues to uncover who did it.

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 Prankster Ocelot is _____

Possible suspects

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

NAME	BLOCK SKILL	CAT TOOL	WATCH HAND	FUR STYLE	CATNIP TRAP
Oliver	Portal Hopping	Diamond Pickaxe	Left Pawed	Tabby Swirls	Cardboard Box
Simba	Tower Building	Golden Carrot Wand	Left Pawed	Calico Stripes	Laser Dot
Chester	Portal Hopping	Enchanted Fishing Rod	Right Pawed	Tabby Swirls	Laser Dot
Nala	Tunnel Digging	Diamond Pickaxe	Right Pawed	Tabby Swirls	Laser Dot
Smokey	Redstone Wiring	Enchanted Fishing Rod	Left Pawed	Tabby Swirls	Squeaky Mouse
Luna	TNT Blasting	Enchanted Fishing Rod	Left Pawed	Tabby Swirls	Laser Dot
Cookie	Tower Building	Enchanted Fishing Rod	Right Pawed	Tuxedo Fur	Squeaky Mouse
Gus	Tunnel Digging	Feather Wand	Left Pawed	Tuxedo Fur	Cardboard Box
Cleo	Tunnel Digging	Enchanted Fishing Rod	Left Pawed	Calico Stripes	Cardboard Box
Hazel	Tower Building	Enchanted Fishing Rod	Left Pawed	Tabby Swirls	Laser Dot
Socks	Tower Building	Laser Pointer	Left Pawed	Calico Stripes	Laser Dot
Mittens	Tower Building	Diamond Pickaxe	Right Pawed	Calico Stripes	Cardboard Box
Willow	Portal Hopping	Laser Pointer	Left Pawed	Tabby Swirls	Cardboard Box
Shadow	Redstone Wiring	Enchanted Fishing Rod	Left Pawed	Tabby Swirls	Laser Dot
Otis	Tunnel Digging	Feather Wand	Right Pawed	Tabby Swirls	Laser Dot
Ziggy	Tower Building	Feather Wand	Right Pawed	Tuxedo Fur	Squeaky Mouse
Pixel	TNT Blasting	Laser Pointer	Right Pawed	Tuxedo Fur	Laser Dot
Jasper	Tower Building	Golden Carrot Wand	Right Pawed	Tuxedo Fur	Squeaky Mouse
Sprocket	Redstone Wiring	Feather Wand	Left Pawed	Tabby Swirls	Laser Dot
Bandit	Tower Building	Golden Carrot Wand	Left Pawed	Tabby Swirls	Laser Dot
Penelope	Tower Building	Feather Wand	Left Pawed	Tuxedo Fur	Squeaky Mouse

CLUE 1
Multiplication facts (1-12)

Check the crafting grid rows to unlock the first clue!

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

T																T
30	44	6	54	56	50	50	88	56	15	99	45	6	66	15	45	30
																T
3	66	6	88	48	45	50	99	6	15	18	88	70	70	45	30	
4	88	15	99													

$5 \times 6 = \square \rightarrow$ T	$4 \times 1 = \square \rightarrow$ W	$9 \times 11 = \square \rightarrow$ D	$9 \times 6 = \square \rightarrow$ V
$2 \times 3 = \square \rightarrow$ E	$6 \times 3 = \square \rightarrow$ C	$5 \times 10 = \square \rightarrow$ L	$3 \times 5 = \square \rightarrow$ N
$11 \times 4 = \square \rightarrow$ H	$7 \times 8 = \square \rightarrow$ I	$8 \times 11 = \square \rightarrow$ A	
$7 \times 10 = \square \rightarrow$ R	$9 \times 5 = \square \rightarrow$ O	$6 \times 11 = \square \rightarrow$ S	
$12 \times 4 = \square \rightarrow$ G	$1 \times 3 = \square \rightarrow$ U		

Scratch space:

CLUE 2

Word problems

The minecart station needs an exact inventory count to share information.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L								D
74	14	52	48	65	31	39	14	

.

Builder Kitty found 61 fish blocks yesterday and 13 more today. How many fish blocks in all?

Answer: → **L**

Builder Kitty found 35 fish blocks yesterday and 4 more today. How many fish blocks in all?

Answer: → **W**

There were 60 scratching posts. 12 were used up. How many scratching posts are left?

Answer: → **T**

There were 75 fish blocks. 23 were used up. How many fish blocks are left?

Answer: → **F**

There were 63 raw cod. 32 were used up. How many raw cod are left?

Answer: → **A**

Builder Kitty lined up 7 rows of 2 scratching posts. How many scratching posts in all?

Answer: → **E**

Builder Kitty found 61 catnip gems yesterday and 4 more today. How many catnip gems in all?

Answer: → **P**

Scratch space:

CLUE 3

Rounding

The server beacon display rounds off pixel counts to reveal evidence.

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

A					A													
7000	290	370	2300	200	7000	2900	370	290	2300	130	2000	2900	2000	130	20	20	370	2300
												A						
2000	9000	370	430	300	3000	2000	9000	370	300	290	2000	290	7000	1100	90	2900		

Round 7,093 to the nearest thousand → **A**

Round 2,893 to the nearest hundred → **S**

Round 1,774 to the nearest thousand → **T**

Round 293 to the nearest ten → **R**

Round 22 to the nearest ten → **P**

Round 1,073 to the nearest hundred → **C**

Round 92 to the nearest ten → **K**

Round 370 to the nearest ten → **E**

Round 211 to the nearest hundred → **L**

Round 431 to the nearest ten → **M**

Round 268 to the nearest hundred → **I**

Round 2,259 to the nearest hundred → **D**

Round 132 to the nearest ten → **O**

Round 8,574 to the nearest thousand → **H**

Round 3,345 to the nearest thousand → **N**

Scratch space:

CLUE 4

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

Diagram illustrating a sequence of numbers and their corresponding values (T or F) in a grid structure.

Top Row (15 boxes):

- 8327 (T)
- 7699
- 5355
- 5355
- 6817
- 4908
- 8193
- 2875
- 2661
- 7699
- 6707
- 6707 (T)
- 8193
- 5479
- 6128
- 8327 (T)
- 7217

Bottom Row (14 boxes):

- 8327 (T)
- 2266
- 3100
- 2875
- 3100
- 9100
- 6707
- 8327 (T)
- 7217
- 8388
- 3100
- 9100
- 8193
- 6707
- 8327 (T)

$$3319 + 5008 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1542 + 1333 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2750 + 3957 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4093 + 4100 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1619 + 1481 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3169 + 2310 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$2067 + 2841 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$2231 + 3897 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$4995 + 3393 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$4810 + 4290 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$1161 + 1105 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2029 + 3326 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$3742 + 3957 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2629 + 4188 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$2906 + 4311 = \boxed{} \rightarrow \boxed{0}$$

$$900 + 1761 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

Scratch space:

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

Divide the cat treats equally among the guard cats to hear their story.

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:

$48 \div 4 = \boxed{}$

$24 \div 4 = \boxed{}$

$36 \div 12 = \boxed{}$

$20 \div 4 = \boxed{}$

$120 \div 12 = \boxed{}$

$8 \div 4 = \boxed{}$

$7 \div 1 = \boxed{}$

$54 \div 6 = \boxed{}$

$88 \div 8 = \boxed{}$

$28 \div 7 = \boxed{}$

$10 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted through the stone wall, then swung a diamond pickaxe.
2. The villain lay down redstone wire trails, then swung a diamond pickaxe.
3. The villain lay down redstone wire trails, then cast an enchanted fishing rod.
4. The villain dug a secret tunnel, then cast an enchanted fishing rod.
5. The villain built a giant tower, then waved a golden carrot wand.
6. The villain built a giant tower, then cast an enchanted fishing rod.
7. The villain lay down redstone wire trails, then shined a laser pointer.
8. The villain blasted through the stone wall, then cast an enchanted fishing rod.
9. The villain built a giant tower, then swished a feather wand.
10. The villain dug a secret tunnel, then swished a feather wand.
11. The villain dug a secret tunnel, then waved a golden carrot wand.
12. The villain lay down redstone wire trails, then swished a feather wand.

Answer Key

The Whisker Block Mystery

Culprit: Luna

TNT Blasting · Enchanted Fishing Rod · Left Pawed · Tabby Swirls · Laser Dot

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE A GOLDEN CARROT WAND"

$5 \times 6 = 30$ (T) · $4 \times 1 = 4$ (W) · $9 \times 11 = 99$ (D) · $9 \times 6 = 54$ (V) · $2 \times 3 = 6$ (E) · $6 \times 3 = 18$ (C) · $5 \times 10 = 50$ (L) · $3 \times 5 = 15$ (N) · $11 \times 4 = 44$ (H) · $7 \times 8 = 56$ (I) · $8 \times 11 = 88$ (A) · $7 \times 10 = 70$ (R) · $9 \times 5 = 45$ (O) · $6 \times 11 = 66$ (S) · $12 \times 4 = 48$ (G) · $1 \times 3 = 3$ (U)

Clue 2 (Word problems): "LEFT PAWED"

Builder Kitty found 61 fish blocks yesterday and 13 more today. How many fish blocks in all? = 74 (L) · Builder Kitty found 35 fish blocks yesterday and 4 more today. How many fish blocks in all? = 39 (W) · There were 60 scratching posts. 12 were used up. How many scratching posts are left? = 48 (T) · There were 75 fish blocks. 23 were used up. How many fish blocks are left? = 52 (F) · There were 63 raw cod. 32 were used up. How many raw cod are left? = 31 (A) · Builder Kitty lined up 7 rows of 2 scratching posts. How many scratching posts in all? = 14 (E) · Builder Kitty found 61 catnip gems yesterday and 4 more today. How many catnip gems in all? = 65 (P)

Clue 3 (Rounding): "A RED LASER DOT STOPPED THEM IN THEIR TRACKS"

Round 7,093 to the nearest thousand = 7000 (A) · Round 2,893 to the nearest hundred = 2900 (S) · Round 1,774 to the nearest thousand = 2000 (T) · Round 293 to the nearest ten = 290 (R) · Round 22 to the nearest ten = 20 (P) · Round 1,073 to the nearest hundred = 1100 (C) · Round 92 to the nearest ten = 90 (K) · Round 370 to the nearest ten = 370 (E) · Round 211 to the nearest hundred = 200 (L) · Round 431 to the nearest ten = 430 (M) · Round 268 to the nearest hundred = 300 (I) · Round 2,259 to the nearest hundred = 2300 (D) · Round 132 to the nearest ten = 130 (O) · Round 8,574 to the nearest thousand = 9000 (H) · Round 3,345 to the nearest thousand = 3000 (N)

Clue 4 (Addition): "TABBY FUR WAS STUCK TO THE REDSTONE DUST"

$3319 + 5008 = 8327$ (T) · $1542 + 1333 = 2875$ (R) · $2750 + 3957 = 6707$ (S) · $4093 + 4100 = 8193$ (U) · $1619 + 1481 = 3100$ (E) · $3169 + 2310 = 5479$ (C) · $2067 + 2841 = 4908$ (F) · $2231 + 3897 = 6128$ (K) · $4995 + 3393 = 8388$ (N) · $4810 + 4290 = 9100$ (D) · $1161 + 1105 = 2266$ (H) · $2029 + 3326 = 5355$ (B) · $3742 + 3957 = 7699$ (A) · $2629 + 4188 = 6817$ (Y) · $2906 + 4311 = 7217$ (O) · $900 + 1761 = 2661$ (W)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Luna

$48 \div 4 = 12$ · $24 \div 4 = 6$ · $36 \div 12 = 3$ · $20 \div 4 = 5$ · $120 \div 12 = 10$ · $8 \div 4 = 2$ · $7 \div 1 = 7$ · $54 \div 6 = 9$ · $88 \div 8 = 11$ · $28 \div 7 = 4$ · $10 \div 10 = 1$