



The Great Whisker Harbor Heist

Grade 5 math · Place value, Multiplication, Skip counting, Addition, Division · Reading level grades 5-6

Detective: _____ Date: _____

Just minutes before the grand ceremony at the Whisker Harbor Cat Show, someone swiped the priceless Golden Mouse Trophy! Detective, gather evidence around the hall to catch the sneaky burglar.

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 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	PRIMARY SKILL	GADGET	DOMINANT PAW	FUR PATTERN	DISTRACTION
Duchess	High Jumping	Laser Pointer	Left Pawed	Solid Black	Tuna Treat
Oliver	Silent Prowling	Catnip Sprayer	Right Pawed	Solid Black	Cardboard Box
Felix	Night Vision	Laser Pointer	Left Pawed	Calico Patches	Cardboard Box
Cleo	High Jumping	Yarn Launcher	Right Pawed	Calico Patches	Cardboard Box
Garfield	Wall Scrambling	Catnip Sprayer	Left Pawed	Solid Black	Cardboard Box
Sylvester	High Jumping	Feather Wand	Left Pawed	Tabby Stripes	Cardboard Box
Penelope	Night Vision	Laser Pointer	Left Pawed	Solid Black	Bell Collar
Stimpy	High Jumping	Yarn Launcher	Right Pawed	Solid Black	Cardboard Box
Milo	Wall Scrambling	Catnip Sprayer	Left Pawed	Calico Patches	Cardboard Box
Crookshanks	Night Vision	Laser Pointer	Right Pawed	Calico Patches	Cardboard Box
Figaro	Silent Prowling	Feather Wand	Right Pawed	Solid Black	Cardboard Box
Jasper	Silent Prowling	Yarn Launcher	Right Pawed	Solid Black	Bell Collar
Berlioz	Sprint Dashing	Yarn Launcher	Right Pawed	Solid Black	Cardboard Box
Tom	Sprint Dashing	Squeaky Mouse	Right Pawed	Calico Patches	Tuna Treat
Socks	High Jumping	Yarn Launcher	Left Pawed	Solid Black	Tuna Treat
Barnaby	Night Vision	Yarn Launcher	Right Pawed	Calico Patches	Cardboard Box
Hobbes	High Jumping	Laser Pointer	Right Pawed	Tabby Stripes	Cardboard Box
Mitten	High Jumping	Laser Pointer	Right Pawed	Calico Patches	Cardboard Box
Salem	Night Vision	Yarn Launcher	Right Pawed	Tabby Stripes	Bell Collar
Snowball	High Jumping	Laser Pointer	Left Pawed	Solid Black	Cardboard Box
Toulouse	Night Vision	Squeaky Mouse	Right Pawed	Solid Black	Cardboard Box

CLUE 1 Place value

We decoded the place value digits on the security keypad to reveal a key gadget clue.

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

T																			
300	900	5000	700	30	5000	40	600	200	700	400	700	90	5000	3000	300	10	70	5000	700
		T																	
30	70	300	400	700	5000	40	800	5000	40	300	900	5000	80	20	40	30	10		

What is the value of the 3 in 58,317?

 → T

What is the value of the 1 in 425,914?

 → D

What is the value of the 4 in 268,043?

 → A

What is the value of the 3 in 163,046?

 → C

What is the value of the 6 in 835,615?

 → K

What is the value of the 5 in 715,103?

 → E

What is the value of the 9 in 30,973?

 → H

What is the value of the 3 in 872,539?

 → N

What is the value of the 4 in 69,493?

 → U

What is the value of the 2 in 199,825?

 → W

What is the value of the 7 in 44,573?

 → O

What is the value of the 2 in 15,211?

 → Y

What is the value of the 7 in 992,780?

 → S

What is the value of the 8 in 926,813?

 → F

What is the value of the 9 in 814,192?

 → P

What is the value of the 8 in 54,586?

 → R

Scratch space:

CLUE 2

Multiplication facts (1-12)

By solving the multiplication grid of paw prints on the stage, we tracked the suspect's habits.

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

T											T					
9	100	22	5	64	96	96	45	35	70	9	45	20	90			
									T					T		
36	20	22	50	11	50	80	35	50	9	45	20	100	11	80	45	9
7	22	70														

$9 \times 1 = \square \rightarrow \boxed{\text{T}}$

$5 \times 9 = \square \rightarrow \boxed{\text{H}}$

$8 \times 8 = \square \rightarrow \boxed{\text{K}}$

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

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

$2 \times 11 = \square \rightarrow \boxed{\text{A}}$

$5 \times 7 = \square \rightarrow \boxed{\text{O}}$

$8 \times 12 = \square \rightarrow \boxed{\text{S}}$

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

$10 \times 9 = \square \rightarrow \boxed{\text{M}}$

$10 \times 2 = \square \rightarrow \boxed{\text{E}}$

$10 \times 7 = \square \rightarrow \boxed{\text{W}}$

$5 \times 10 = \square \rightarrow \boxed{\text{N}}$

$11 \times 1 = \square \rightarrow \boxed{\text{I}}$

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

$1 \times 5 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 3

Skip counting the rhythmic paw taps down the hallway revealed another suspicious detail.

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

Diagram illustrating a 2D array structure with two rows of boxes. The top row contains 16 boxes, and the bottom row contains 10 boxes. Some boxes are shaded orange and labeled 'T', while others are white and labeled with numbers.

Top Row (16 boxes):

- Box 1: Orange, labeled 'T' (Value: 25)
- Box 2: White, labeled 35
- Box 3: White, labeled 120
- Box 4: White, labeled 15
- Box 5: White, labeled 110
- Box 6: White, labeled 70
- Box 7: White, labeled 8
- Box 8: White, labeled 33
- Box 9: White, labeled 60
- Box 10: White, labeled 42
- Box 11: White, labeled 70
- Box 12: Orange, labeled 'T' (Value: 25)
- Box 13: White, labeled 26
- Box 14: White, labeled 120
- Box 15: White, labeled 30
- Box 16: White, labeled 130

Bottom Row (10 boxes):

- Box 1: White, labeled 110
- Box 2: White, labeled 55
- Box 3: White, labeled 26
- Box 4: White, labeled 60
- Box 5: White, labeled 50
- Box 6: White, labeled 70
- Box 7: White, labeled 55
- Box 8: White, labeled 26
- Box 9: White, labeled 60
- Box 10: White, labeled 50

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **T**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **0**

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **X**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **Y**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 → **S**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 →

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **U**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 → **C**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **L**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 → **B**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **R**

Scratch space:

CLUE 4 Addition

Adding up the total fur fibers collected near the scene pointed toward a specific trait.

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

B																	
7773	2925	2650	6499	8579	5663	9671	5951	4859	2650	8521	8521	9124	2650	3025	3025	7289	7036
5494	9124	9890	6571	7289	4859	5067	9124	7036	5494	4859	2925	2650	9890	6499	6571		

$3840 + 3933 = \square \rightarrow \text{B}$

$1655 + 1370 = \square \rightarrow \text{G}$

$2528 + 2331 = \square \rightarrow \text{W}$

$1542 + 1108 = \square \rightarrow \text{A}$

$4411 + 4713 = \square \rightarrow \text{N}$

$1882 + 1043 = \square \rightarrow \text{L}$

$3875 + 5796 = \square \rightarrow \text{U}$

$3179 + 3392 = \square \rightarrow \text{H}$

$2175 + 4861 = \square \rightarrow \text{D}$

$3833 + 1830 = \square \rightarrow \text{F}$

$5143 + 3436 = \square \rightarrow \text{K}$

$3814 + 2137 = \square \rightarrow \text{R}$

$3817 + 4704 = \square \rightarrow \text{S}$

$4396 + 2893 = \square \rightarrow \text{E}$

$2760 + 2307 = \square \rightarrow \text{I}$

$2282 + 3212 = \square \rightarrow \text{O}$

$6879 + 3011 = \square \rightarrow \text{T}$

$4111 + 2388 = \square \rightarrow \text{C}$

Scratch space:

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

Dividing the leftover evidence evenly into sample bags uncovered the final secret.

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:

$44 \div 4 = \boxed{}$

$32 \div 4 = \boxed{}$

$120 \div 10 = \boxed{}$

$42 \div 7 = \boxed{}$

$40 \div 4 = \boxed{}$

$24 \div 8 = \boxed{}$

$4 \div 2 = \boxed{}$

$9 \div 9 = \boxed{}$

$30 \div 6 = \boxed{}$

$28 \div 4 = \boxed{}$

$48 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain prowled through the dark hall, then squeaked a fake mouse to trip the alarm.
2. The villain prowled through the dark hall, then shot yarn to tangle the security traps.
3. The villain prowled through the dark hall, then waved a feather wand to confuse the crowd.
4. The villain scrambled up the curtain, then sprayed catnip to distract the guards.
5. The villain scrambled up the curtain, then blinded the guard with a laser pointer.
6. The villain dashed across the showroom floor, then sprayed catnip to distract the guards.
7. The villain jumped onto the high ledge, then sprayed catnip to distract the guards.
8. The villain jumped onto the high ledge, then shot yarn to tangle the security traps.
9. The villain dashed across the showroom floor, then shot yarn to tangle the security traps.
10. The villain navigated the pitch black room, then waved a feather wand to confuse the crowd.
11. The villain navigated the pitch black room, then squeaked a fake mouse to trip the alarm.
12. The villain prowled through the dark hall, then sprayed catnip to distract the guards.

Answer Key

The Great Whisker Harbor Heist

Culprit: Berlioz

Sprint Dashing · Yarn Launcher · Right Pawed · Solid Black · Cardboard Box

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY SUSPECT DOES NOT USE A FEATHER WAND"

What is the value of the 3 in 58,317? = 300 (T) · What is the value of the 1 in 425,914? = 10 (D) · What is the value of the 4 in 268,043? = 40 (A) · What is the value of the 3 in 163,046? = 3000 (C) · What is the value of the 6 in 835,615? = 600 (K) · What is the value of the 5 in 715,103? = 5000 (E) · What is the value of the 9 in 30,973? = 900 (H) · What is the value of the 3 in 872,539? = 30 (N) · What is the value of the 4 in 69,493? = 400 (U) · What is the value of the 2 in 199,825? = 20 (W) · What is the value of the 7 in 44,573? = 70 (O) · What is the value of the 2 in 15,211? = 200 (Y) · What is the value of the 7 in 992,780? = 700 (S) · What is the value of the 8 in 926,813? = 800 (F) · What is the value of the 9 in 814,192? = 90 (P) · What is the value of the 8 in 54,586? = 80 (R)

Clue 2 (Multiplication facts (1-12)): "TRACKS SHOW THEM LEANING ON THE RIGHT PAW"

$9 \times 1 = 9$ (T) · $5 \times 9 = 45$ (H) · $8 \times 8 = 64$ (K) · $10 \times 8 = 80$ (G) · $10 \times 10 = 100$ (R) · $2 \times 11 = 22$ (A) · $5 \times 7 = 35$ (O) · $8 \times 12 = 96$ (S) · $7 \times 1 = 7$ (P) · $10 \times 9 = 90$ (M) · $10 \times 2 = 20$ (E) · $10 \times 7 = 70$ (W) · $5 \times 10 = 50$ (N) · $11 \times 1 = 11$ (I) · $3 \times 12 = 36$ (L) · $1 \times 5 = 5$ (C)

Clue 3 (Skip counting): "THEY COULD NOT RESIST A CARDBOARD BOX"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (X) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (Y) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 = 30 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (R)

Clue 4 (Addition): "BLACK FUR WAS SNAGGED ON THE WINDOW LATCH"

$3840 + 3933 = 7773$ (B) · $1655 + 1370 = 3025$ (G) · $2528 + 2331 = 4859$ (W) · $1542 + 1108 = 2650$ (A) · $4411 + 4713 = 9124$ (N) · $1882 + 1043 = 2925$ (L) · $3875 + 5796 = 9671$ (U) · $3179 + 3392 = 6571$ (H) · $2175 + 4861 = 7036$ (D) · $3833 + 1830 = 5663$ (F) · $5143 + 3436 = 8579$ (K) · $3814 + 2137 = 5951$ (R) · $3817 + 4704 = 8521$ (S) · $4396 + 2893 = 7289$ (E) · $2760 + 2307 = 5067$ (I) · $2282 + 3212 = 5494$ (O) · $6879 + 3011 = 9890$ (T) · $4111 + 2388 = 6499$ (C)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Berlioz

$44 \div 4 = 11$ · $32 \div 4 = 8$ · $120 \div 10 = 12$ · $42 \div 7 = 6$ · $40 \div 4 = 10$ · $24 \div 8 = 3$ · $4 \div 2 = 2$ · $9 \div 9 = 1$ · $30 \div 6 = 5$ · $28 \div 4 = 7$ · $48 \div 12 = 4$