



The Great Catnip Caper

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

Someone swapped the golden fish statue with a painted rock! Detective Whiskers needs your help to decode the clues and catch the sneaky cat before naptime.

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 Alley Cat is _____

Possible suspects

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

NAME	PAW POWER	CAT TOOL	COLLAR	FUR PATTERN	DISTRACTION
Milo	Mega Meow	Bell Toy	Blue Collar	Orange Tabby	Spray Bottle
Nala	Night Vision	Bell Toy	Red Collar	Sleek Black	Laser Light
Felix	Super Leap	Squeaky Mouse	Red Collar	Calico Patch	Spray Bottle
Marie	Wall Climb	Feather Wand	Blue Collar	Sleek Black	Laser Light
Sylvester	Wall Climb	Squeaky Mouse	Blue Collar	Calico Patch	Shake Treat Box
Boots	Mega Meow	Scratch Post	Red Collar	Sleek Black	Shake Treat Box
Tom	Wall Climb	Bell Toy	Red Collar	Orange Tabby	Spray Bottle
Shadow	Silent Paws	Feather Wand	Red Collar	Calico Patch	Shake Treat Box
Mittens	Super Leap	Scratch Post	Red Collar	Calico Patch	Shake Treat Box
Smokey	Wall Climb	Squeaky Mouse	Red Collar	Calico Patch	Shake Treat Box
Simba	Super Leap	Yarn Ball	Red Collar	Calico Patch	Shake Treat Box
Socks	Super Leap	Feather Wand	Red Collar	Orange Tabby	Shake Treat Box
Whiskers	Mega Meow	Scratch Post	Red Collar	Sleek Black	Spray Bottle
Berlioz	Mega Meow	Scratch Post	Blue Collar	Calico Patch	Spray Bottle
Snowball	Night Vision	Squeaky Mouse	Blue Collar	Calico Patch	Spray Bottle
Otis	Night Vision	Feather Wand	Red Collar	Sleek Black	Laser Light
Cheshire	Super Leap	Squeaky Mouse	Red Collar	Sleek Black	Shake Treat Box
Fluffy	Night Vision	Squeaky Mouse	Blue Collar	Orange Tabby	Laser Light
Cleo	Wall Climb	Bell Toy	Red Collar	Calico Patch	Shake Treat Box
Duchess	Wall Climb	Feather Wand	Blue Collar	Calico Patch	Spray Bottle
Figaro	Mega Meow	Squeaky Mouse	Red Collar	Calico Patch	Laser Light

CLUE 1 Place value

Ranger Paws checked the digits on the security keypad to read the first clue.

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

T																T
19	58	64	32	51	95	95	31	51	65	56	62	64	82	65	62	19
12	82	64	31	60	31	18	65	77	31	95	95					

What number has 1 ten and 9 ones?

 → **T**

What number has 8 tens and 2 ones?

 → **S**

What number has 6 tens and 0 ones?

 → **Y**

What number has 3 tens and 2 ones?

 → **V**

What number has 1 ten and 8 ones?

 → **R**

What number has 7 tens and 7 ones?

 → **B**

What number has 9 tens and 5 ones?

 → **L**

What number has 6 tens and 2 ones?

 → **O**

What number has 5 tens and 8 ones?

 → **H**

What number has 6 tens and 5 ones?

 → **N**

What number has 1 ten and 2 ones?

 → **U**

What number has 6 tens and 4 ones?

 → **E**

What number has 5 tens and 6 ones?

 → **D**

What number has 5 tens and 1 one?

 → **I**

What number has 3 tens and 1 one?

 → **A**

Scratch space:

CLUE 2 Addition

Detective Whiskers added up all the stray paw prints found near the park bench.

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

W									W							
26	91	84	76	22	61	61	61	50	26	50	28	24	91	57	30	84

24	22	93	73	21	96	96	50	24

$16 + 10 = \square \rightarrow \boxed{W}$

$27 + 23 = \square \rightarrow \boxed{A}$

$53 + 38 = \square \rightarrow \boxed{I}$

$44 + 49 = \square \rightarrow \boxed{D}$

$51 + 45 = \square \rightarrow \boxed{L}$

$41 + 32 = \square \rightarrow \boxed{C}$

$12 + 18 = \square \rightarrow \boxed{H}$

$22 + 54 = \square \rightarrow \boxed{N}$

$54 + 30 = \square \rightarrow \boxed{T}$

$16 + 8 = \square \rightarrow \boxed{R}$

$6 + 15 = \square \rightarrow \boxed{O}$

$42 + 19 = \square \rightarrow \boxed{S}$

$27 + 30 = \square \rightarrow \boxed{G}$

$11 + 11 = \square \rightarrow \boxed{E}$

$17 + 11 = \square \rightarrow \boxed{B}$

Scratch space:

CLUE 3

Subtraction

We subtracted the missing fish treats from the stash to reveal another secret.

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

S												S							
46	45	34	13	71	25	26	27	78	24	34	27	46	72	34	44	24	27	45	24

				S	
51	34	27	82	34	28

$55 - 9 = \square \rightarrow \text{S}$

$49 - 22 = \square \rightarrow \text{T}$

$52 - 18 = \square \rightarrow \text{A}$

$41 - 28 = \square \rightarrow \text{K}$

$45 - 20 = \square \rightarrow \text{N}$

$62 - 34 = \square \rightarrow \text{U}$

$100 - 18 = \square \rightarrow \text{P}$

$93 - 15 = \square \rightarrow \text{R}$

$77 - 6 = \square \rightarrow \text{I}$

$52 - 28 = \square \rightarrow \text{E}$

$62 - 18 = \square \rightarrow \text{D}$

$75 - 30 = \square \rightarrow \text{H}$

$85 - 34 = \square \rightarrow \text{C}$

$79 - 7 = \square \rightarrow \text{M}$

$35 - 9 = \square \rightarrow \text{G}$

Scratch space:

CLUE 4 Skip counting

Counting by twos along the trail of squeaky toys gave us the next lead.

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

C				C														
55	15	33	35	55	25	14	100	27	39	15	6	14	25	100	120	45	36	12

20	80	130	50	15	20	130	

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **B**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **F**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **G**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **R**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **Y**

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

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

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **S**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **D**

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

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

Scratch space:

CLUE 5**Missing addends - the last clue**

We filled in the missing numbers on the chore chart to find the last hint.

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:

$7 + \underline{\quad} = 14$

$2 + \underline{\quad} = 10$

$1 + \underline{\quad} = 3$

$9 + \underline{\quad} = 19$

$8 + \underline{\quad} = 20$

$10 + \underline{\quad} = 16$

$8 + \underline{\quad} = 17$

$3 + \underline{\quad} = 4$

$5 + \underline{\quad} = 16$

$2 + \underline{\quad} = 5$

$5 + \underline{\quad} = 10$

Step 2 - cross out the sentence with each answer:

1. The villain meowed a loud distraction, then tangled the yarn ball.
2. The villain scaled the high wall, then dropped a squeaky mouse.
3. The villain spotted the statue in the dark, then jingled a small bell toy.
4. The villain scaled the high wall, then jingled a small bell toy.
5. The villain spotted the statue in the dark, then dropped a squeaky mouse.
6. The villain spotted the statue in the dark, then waved a feather wand.
7. The villain leaped over the fence, then scratched the wooden sign.
8. The villain snuck past the guard, then waved a feather wand.
9. The villain snuck past the guard, then scratched the wooden sign.
10. The villain snuck past the guard, then tangled the yarn ball.
11. The villain leaped over the fence, then waved a feather wand.
12. The villain snuck past the guard, then dropped a squeaky mouse.

Answer Key

The Great Catnip Caper

Culprit: Cleo

Wall Climb · Bell Toy · Red Collar · Calico Patch · Shake Treat Box

Trail: Start 21 → Clue 1 20 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A YARN BALL"

What number has 1 ten and 9 ones? = 19 (T) · What number has 8 tens and 2 ones? = 82 (S) · What number has 6 tens and 0 ones? = 60 (Y) · What number has 3 tens and 2 ones? = 32 (V) · What number has 1 ten and 8 ones? = 18 (R) · What number has 7 tens and 7 ones? = 77 (B) · What number has 9 tens and 5 ones? = 95 (L) · What number has 6 tens and 2 ones? = 62 (O) · What number has 5 tens and 8 ones? = 58 (H) · What number has 6 tens and 5 ones? = 65 (N) · What number has 1 ten and 2 ones? = 12 (U) · What number has 6 tens and 4 ones? = 64 (E) · What number has 5 tens and 6 ones? = 56 (D) · What number has 5 tens and 1 one? = 51 (I) · What number has 3 tens and 1 one? = 31 (A)

Clue 2 (Addition): "WITNESS SAW A BRIGHT RED COLLAR"

$16 + 10 = 26$ (W) · $27 + 23 = 50$ (A) · $53 + 38 = 91$ (I) · $44 + 49 = 93$ (D) · $51 + 45 = 96$ (L) · $41 + 32 = 73$ (C) · $12 + 18 = 30$ (H) · $22 + 54 = 76$ (N) · $54 + 30 = 84$ (T) · $16 + 8 = 24$ (R) · $6 + 15 = 21$ (O) · $42 + 19 = 61$ (S) · $27 + 30 = 57$ (G) · $11 + 11 = 22$ (E) · $17 + 11 = 28$ (B)

Clue 3 (Subtraction): "SHAKING TREATS MADE THE CAT PAUSE"

$55 - 9 = 46$ (S) · $49 - 22 = 27$ (T) · $52 - 18 = 34$ (A) · $41 - 28 = 13$ (K) · $45 - 20 = 25$ (N) · $62 - 34 = 28$ (U) · $100 - 18 = 82$ (P) · $93 - 15 = 78$ (R) · $77 - 6 = 71$ (I) · $52 - 28 = 24$ (E) · $62 - 18 = 44$ (D) · $75 - 30 = 45$ (H) · $85 - 34 = 51$ (C) · $79 - 7 = 72$ (M) · $35 - 9 = 26$ (G)

Clue 4 (Skip counting): "CALICO FUR WAS FOUND BY THE GATE"

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

Clue 5 (Missing addends): surviving statement is box 4 → Cleo

$7 + \underline{\quad} = 14 = 7$ · $2 + \underline{\quad} = 10 = 8$ · $1 + \underline{\quad} = 3 = 2$ · $9 + \underline{\quad} = 19 = 10$ · $8 + \underline{\quad} = 20 = 12$ · $10 + \underline{\quad} = 16 = 6$ · $8 + \underline{\quad} = 17 = 9$ · $3 + \underline{\quad} = 4 = 1$ · $5 + \underline{\quad} = 16 = 11$ · $2 + \underline{\quad} = 5 = 3$ · $5 + \underline{\quad} = 10 = 5$