



The Great Catnip Caper

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

Detective: _____ Date: _____

A sneaky cat burglar has swiped the Golden Catnip Mouse right out of its glass case! Chief Detective Whiskers needs your help to crack the codes and catch the culprit before they escape the city.

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	CAT SKILL	POCKET TOY	FAVORITE PAW	FUR PATTERN	SECRET WEAKNESS
Felix	super purr	box trap	left pawed	calico patch	water sprayer
Nala	quick claw	box trap	left pawed	calico patch	water sprayer
Milo	high jump	yarn throw	right pawed	orange stripe	belly rub
Boots	quick claw	yarn throw	right pawed	midnight black	water sprayer
Chloe	high jump	yarn throw	left pawed	calico patch	belly rub
Duchess	quick claw	box trap	left pawed	orange stripe	water sprayer
Garbanzo	night vision	yarn throw	right pawed	orange stripe	belly rub
Garfield	super purr	yarn throw	right pawed	calico patch	water sprayer
Cheshire	super purr	laser pointer	left pawed	midnight black	belly rub
Mittens	silent sneak	box trap	right pawed	midnight black	water sprayer
Socks	silent sneak	milk splash	right pawed	calico patch	water sprayer
Figaro	silent sneak	yarn throw	left pawed	orange stripe	belly rub
Whiskers	night vision	catnip spray	right pawed	calico patch	water sprayer
Oliver	night vision	box trap	left pawed	calico patch	belly rub
Salem	super purr	milk splash	right pawed	orange stripe	squeaky toy
Simba	super purr	laser pointer	left pawed	calico patch	belly rub
Tigger	silent sneak	yarn throw	right pawed	calico patch	belly rub
Smokey	high jump	laser pointer	left pawed	calico patch	squeaky toy
Sylvester	quick claw	milk splash	left pawed	calico patch	belly rub
Puss	super purr	laser pointer	left pawed	orange stripe	belly rub
Morris	silent sneak	yarn throw	left pawed	calico patch	belly rub

Multiplication facts (1-12)

The museum guard found rows of empty cat food cans left behind. Let's multiply the rows to find out how many cans the burglar ate!

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

9 5 56 81 27 11 24 35 18 11 66 45 56 72 7 45 9

27 72 56 18 22 16 35 50 72 80 35 18 72 5

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

$10 \times 8 = \boxed{} \rightarrow \boxed{\text{P}}$

$12 \times 2 = \boxed{} \rightarrow \boxed{\text{G}}$

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

$$3 \times 9 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$5 \times 9 = \boxed{} \rightarrow \boxed{0}$$

$9 \times 9 = \boxed{} \rightarrow \boxed{\text{B}}$

$$5 \times 1 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{M}}$$

$$6 \times 12 = \boxed{} \rightarrow \boxed{\text{S}}$$

$10 \times 5 = \square \rightarrow \mathbf{K}$

$2 \times 9 = \square \rightarrow \mathbf{A}$

$8 \times 2 = \boxed{} \rightarrow \boxed{1}$

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

$11 \times 6 = \square \rightarrow \square$

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

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

Scratch space:

CLUE 2 Rounding

We check the security laser display, but the screen only shows rounded numbers. Round the distance of the tracks to get a clean signal!

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

T																			
700	370	30	1700	900	7000	130	70	1300	430	50	700	5000	5000	370	3000	130	7000		
900	30	4300	700	70	7000	130													

Round 679 to the nearest hundred → **T**

Round 4,273 to the nearest hundred → **F**

Round 67 to the nearest ten → **P**

Round 945 to the nearest hundred → **L**

Round 48 to the nearest ten → **N**

Round 7,199 to the nearest thousand → **A**

Round 32 to the nearest ten → **E**

Round 426 to the nearest ten → **I**

Round 4,659 to the nearest thousand → **S**

Round 126 to the nearest ten → **W**

Round 1,681 to the nearest hundred → **C**

Round 1,332 to the nearest hundred → **R**

Round 374 to the nearest ten → **H**

Round 2,744 to the nearest thousand → **O**

Scratch space:

CLUE 3 Addition

The curator is adding up the recovered cat toys. Help count the shiny bells and plastic mice to get our next big lead!

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

T																
6927	7372	5671	2424	7943	5671	3016	8532	4013	5676	7943	2424	5875	4013	7577	4686	3016

3290	5671	3483	3483	6849	4013	5676	3290

$3782 + 3145 = \square \rightarrow \text{T}$	$5150 + 3382 = \square \rightarrow \text{K}$	$3588 + 3989 = \square \rightarrow \text{O}$
$2481 + 5462 = \square \rightarrow \text{N}$	$2131 + 3540 = \square \rightarrow \text{E}$	$1727 + 1563 = \square \rightarrow \text{B}$
$1885 + 3990 = \square \rightarrow \text{F}$	$3102 + 4270 = \square \rightarrow \text{H}$	$4406 + 2443 = \square \rightarrow \text{Y}$
$1405 + 1019 = \square \rightarrow \text{S}$	$1951 + 2062 = \square \rightarrow \text{R}$	$2817 + 1869 = \square \rightarrow \text{M}$
$1247 + 2236 = \square \rightarrow \text{L}$	$3911 + 1765 = \square \rightarrow \text{U}$	$933 + 2083 = \square \rightarrow \text{A}$

Scratch space:

CLUE 4

Subtraction

Someone stole tuna cans from the pantry! Subtract the leftover cans from the starting total to find out how many are missing.

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

W																		
2726	5785	6714	6758	2605	1372	3619	2532	8749	2532	6079	8822	8749	6758	3366	2532	5758	8749	2002

6714	2605	2794

$5400 - 2674 = \square \rightarrow \boxed{\text{W}}$

$13474 - 4652 = \square \rightarrow \boxed{\text{I}}$

$9480 - 3722 = \square \rightarrow \boxed{\text{T}}$

$3592 - 226 = \square \rightarrow \boxed{\text{P}}$

$7055 - 976 = \square \rightarrow \boxed{\text{L}}$

$8070 - 1312 = \square \rightarrow \boxed{\text{O}}$

$3700 - 906 = \square \rightarrow \boxed{\text{R}}$

$2624 - 92 = \square \rightarrow \boxed{\text{A}}$

$7376 - 3757 = \square \rightarrow \boxed{\text{D}}$

$5241 - 3239 = \square \rightarrow \boxed{\text{H}}$

$2955 - 1583 = \square \rightarrow \boxed{\text{N}}$

$10155 - 3441 = \square \rightarrow \boxed{\text{F}}$

$10751 - 2002 = \square \rightarrow \boxed{\text{C}}$

$6109 - 324 = \square \rightarrow \boxed{\text{E}}$

$3646 - 1041 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

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

We found a pile of fish treats to share equally among the detective pups. Divide them up to unlock the 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:

$100 \div 10 = \boxed{}$

$45 \div 9 = \boxed{}$

$48 \div 8 = \boxed{}$

$72 \div 6 = \boxed{}$

$99 \div 11 = \boxed{}$

$49 \div 7 = \boxed{}$

$20 \div 10 = \boxed{}$

$99 \div 9 = \boxed{}$

$24 \div 3 = \boxed{}$

$48 \div 12 = \boxed{}$

$15 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shakes the windows with a super purr, then distracts the museum drones with a laser pointer.
2. The villain swipes the lock open with a quick claw, then tangles up the guard dogs with a yarn throw.
3. The villain navigates the dark museum using night vision, then distracts the museum drones with a laser pointer.
4. The villain shakes the windows with a super purr, then tricks the museum guards with a cardboard box trap.
5. The villain makes a giant high jump over the laser beams, then tangles up the guard dogs with a yarn throw.
6. The villain navigates the dark museum using night vision, then tricks the museum guards with a cardboard box trap.
7. The villain navigates the dark museum using night vision, then makes a messy escape using a milk splash.
8. The villain swipes the lock open with a quick claw, then confuses the security guards with catnip spray.
9. The villain slips through the halls with a silent sneak, then makes a messy escape using a milk splash.
10. The villain slips through the halls with a silent sneak, then tangles up the guard dogs with a yarn throw.
11. The villain swipes the lock open with a quick claw, then distracts the museum drones with a laser pointer.
12. The villain slips through the halls with a silent sneak, then tricks the museum guards with a cardboard box trap.

Answer Key

The Great Catnip Caper

Culprit: Simba

super purr · laser pointer · left pawed · calico patch · belly rub

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BURGLAR DOES NOT USE A MILK SPLASH"

$1 \times 9 = 9$ (T) · $10 \times 8 = 80$ (P) · $12 \times 2 = 24$ (G) · $1 \times 7 = 7$ (N) · $3 \times 9 = 27$ (U) · $5 \times 9 = 45$ (O) · $9 \times 9 = 81$ (B) · $5 \times 1 = 5$ (H) · $2 \times 11 = 22$ (M) · $6 \times 12 = 72$ (S) · $10 \times 5 = 50$ (K) · $2 \times 9 = 18$ (A) · $8 \times 2 = 16$ (I) · $7 \times 8 = 56$ (E) · $11 \times 6 = 66$ (D) · $11 \times 1 = 11$ (R) · $7 \times 5 = 35$ (L)

Clue 2 (Rounding): "THE CLAW PRINTS SHOW A LEFT PAW"

Round 679 to the nearest hundred = 700 (T) · Round 4,273 to the nearest hundred = 4300 (F) · Round 67 to the nearest ten = 70 (P) · Round 945 to the nearest hundred = 900 (L) · Round 48 to the nearest ten = 50 (N) · Round 7,199 to the nearest thousand = 7000 (A) · Round 32 to the nearest ten = 30 (E) · Round 426 to the nearest ten = 430 (I) · Round 4,659 to the nearest thousand = 5000 (S) · Round 126 to the nearest ten = 130 (W) · Round 1,681 to the nearest hundred = 1700 (C) · Round 1,332 to the nearest hundred = 1300 (R) · Round 374 to the nearest ten = 370 (H) · Round 2,744 to the nearest thousand = 3000 (O)

Clue 3 (Addition): "THE SNEAK RUNS FROM A BELLY RUB"

$3782 + 3145 = 6927$ (T) · $5150 + 3382 = 8532$ (K) · $3588 + 3989 = 7577$ (O) · $2481 + 5462 = 7943$ (N) · $2131 + 3540 = 5671$ (E) · $1727 + 1563 = 3290$ (B) · $1885 + 3990 = 5875$ (F) · $3102 + 4270 = 7372$ (H) · $4406 + 2443 = 6849$ (Y) · $1405 + 1019 = 2424$ (S) · $1951 + 2062 = 4013$ (R) · $2817 + 1869 = 4686$ (M) · $1247 + 2236 = 3483$ (L) · $3911 + 1765 = 5676$ (U) · $933 + 2083 = 3016$ (A)

Clue 4 (Subtraction): "WE FOUND A CALICO PATCH FUR"

$5400 - 2674 = 2726$ (W) · $13474 - 4652 = 8822$ (I) · $9480 - 3722 = 5758$ (T) · $3592 - 226 = 3366$ (P) · $7055 - 976 = 6079$ (L) · $8070 - 1312 = 6758$ (O) · $3700 - 906 = 2794$ (R) · $2624 - 92 = 2532$ (A) · $7376 - 3757 = 3619$ (D) · $5241 - 3239 = 2002$ (H) · $2955 - 1583 = 1372$ (N) · $10155 - 3441 = 6714$ (F) · $10751 - 2002 = 8749$ (C) · $6109 - 324 = 5785$ (E) · $3646 - 1041 = 2605$ (U)

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

$100 \div 10 = 10$ · $45 \div 9 = 5$ · $48 \div 8 = 6$ · $72 \div 6 = 12$ · $99 \div 11 = 9$ · $49 \div 7 = 7$ · $20 \div 10 = 2$ · $99 \div 9 = 11$ · $24 \div 3 = 8$ · $48 \div 12 = 4$ · $15 \div 5 = 3$