



The Great Catnip Cup Caper

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

Detective: _____ **Date:** _____

Oh no! Someone swiped the Golden Catnip Trophy from the academy trophy case! The floor is covered in dusty paw prints. We need to find which student or teacher at Whisker Hills is the sneaky cat bandit before the grand graduation ceremony tonight!

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 bandit is _____

Possible suspects

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

NAME	SPECIAL TOY	FAVORITE TREAT	COLLAR COLOR	FUR PATTERN	DISTRACTION
Milo	cardboard box	cat grass	red collar	solid fur	squeaky toy
Cleo	catnip mouse	milk drops	blue collar	solid fur	belly rubs
Simba	laser pointer	cat grass	red collar	spotted fur	belly rubs
Garfield	feather wand	tuna treats	blue collar	striped fur	belly rubs
Tigger	cardboard box	salmon bites	red collar	spotted fur	crinkly paper
Jasper	feather wand	cat grass	blue collar	solid fur	belly rubs
Pippin	catnip mouse	salmon bites	blue collar	striped fur	squeaky toy
Oliver	feather wand	cat grass	red collar	solid fur	crinkly paper
Socks	laser pointer	tuna treats	red collar	striped fur	squeaky toy
Shadow	catnip mouse	tuna treats	blue collar	striped fur	crinkly paper
Sylvester	feather wand	milk drops	red collar	spotted fur	crinkly paper
Mittens	feather wand	chicken bits	red collar	spotted fur	crinkly paper
Chloe	cardboard box	chicken bits	blue collar	striped fur	crinkly paper
Luna	laser pointer	tuna treats	red collar	spotted fur	crinkly paper
Felix	laser pointer	tuna treats	red collar	solid fur	belly rubs
Patches	catnip mouse	chicken bits	blue collar	spotted fur	belly rubs
Smokey	feather wand	salmon bites	blue collar	spotted fur	belly rubs
Boots	laser pointer	cat grass	red collar	spotted fur	crinkly paper
Ginger	laser pointer	tuna treats	red collar	spotted fur	belly rubs
Peaches	cardboard box	salmon bites	red collar	striped fur	belly rubs
Bella	yarn ball	tuna treats	blue collar	spotted fur	crinkly paper

CLUE 1

The security radar has fuzzy numbers. Round the distance of the cat steps to the nearest ten to clear up the screen!

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

4000 600 80 900 70 700 90 2000 4000 90 800 80 30 700 800 4000

3000 2000 500 80 400 2000 3000 500 90 60 800 8000 30

Round 3,906 to the nearest thousand $\rightarrow$ **T**

Round 2,693 to the nearest thousand →

L

Round 619 to the nearest hundred $\rightarrow$ **H**

Round 7,658 to the nearest thousand $\rightarrow$ **P**

Round 839 to the nearest hundred $\rightarrow$ ☐

Round 64 to the nearest ten → **R**

Round 33 to the nearest ten $\rightarrow$ **S**

Round 506 to the nearest hundred → **K**

Round 73 to the nearest ten $\rightarrow$ **A**

Round 90 to the nearest ten $\rightarrow$ **D**

Round 1,850 to the nearest thousand $\rightarrow$

Round 391 to the nearest hundred → **M**

Round 888 to the nearest hundred $\rightarrow$ **B**

Round 82 to the nearest ten → **E**

Round 655 to the nearest hundred → **N**

Scratch space:

CLUE 2 Addition

To unlock the pantry door, we must count all the fish biscuits we found and add them together.

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

T																	
984	326	896	740	316	896	405	926	787	280	405	984	842	896	405	763	740	405
763	896	743	280	484	489	489	405	763									

$$474 + 510 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$541 + 301 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$327 + 157 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$107 + 173 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$367 + 373 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$146 + 170 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$346 + 550 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$289 + 498 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$482 + 261 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$266 + 497 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$180 + 225 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$270 + 219 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$193 + 133 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$403 + 523 = \boxed{} \rightarrow \boxed{\text{K}}$$

Scratch space:

CLUE 3

Subtraction

The guard dropped some toy mice. Find how many are missing by subtracting the leftover toys.

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

T					T						T						
321	165	792	604	162	321	897	699	564	564	322	321	295	589	309	295	438	

604	438	699	880	286	564	883	589	162	589	792	438	

$631 - 310 = \square \rightarrow \boxed{\text{T}}$

$829 - 391 = \square \rightarrow \boxed{\text{R}}$

$1267 - 387 = \square \rightarrow \boxed{\text{N}}$

$883 - 279 = \square \rightarrow \boxed{\text{C}}$

$1288 - 391 = \square \rightarrow \boxed{\text{W}}$

$992 - 200 = \square \rightarrow \boxed{\text{E}}$

$433 - 111 = \square \rightarrow \boxed{\text{S}}$

$725 - 136 = \square \rightarrow \boxed{\text{P}}$

$491 - 196 = \square \rightarrow \boxed{\text{O}}$

$878 - 179 = \square \rightarrow \boxed{\text{I}}$

$1134 - 251 = \square \rightarrow \boxed{\text{Y}}$

$466 - 301 = \square \rightarrow \boxed{\text{H}}$

$402 - 116 = \square \rightarrow \boxed{\text{K}}$

$611 - 302 = \square \rightarrow \boxed{\text{F}}$

$601 - 37 = \square \rightarrow \boxed{\text{L}}$

$175 - 13 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The suspect ran across several rows of yarn baskets. Multiply the rows by the baskets to find the total.

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

W																		
45	12	54	121	33	81	64	42	27	121	16	16	12	64	54	33	60	32	16

16	7	12	42	99	12	81	12

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

$7 \times 6 = \square \rightarrow \boxed{\text{S}}$

$11 \times 9 = \square \rightarrow \boxed{\text{C}}$

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

$9 \times 3 = \square \rightarrow \boxed{\text{P}}$

$2 \times 6 = \square \rightarrow \boxed{\text{E}}$

$6 \times 9 = \square \rightarrow \boxed{\text{F}}$

$11 \times 3 = \square \rightarrow \boxed{\text{U}}$

$10 \times 6 = \square \rightarrow \boxed{\text{R}}$

$11 \times 11 = \square \rightarrow \boxed{\text{O}}$

$9 \times 9 = \square \rightarrow \boxed{\text{N}}$

$4 \times 4 = \square \rightarrow \boxed{\text{T}}$

$8 \times 4 = \square \rightarrow \boxed{\text{A}}$

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

Scratch space:

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

We have to share these yummy cat treats equally among our team of detectives to solve 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:

$49 \div 7 = \boxed{}$

$81 \div 9 = \boxed{}$

$6 \div 3 = \boxed{}$

$44 \div 4 = \boxed{}$

$24 \div 3 = \boxed{}$

$72 \div 12 = \boxed{}$

$60 \div 5 = \boxed{}$

$40 \div 8 = \boxed{}$

$8 \div 2 = \boxed{}$

$10 \div 10 = \boxed{}$

$10 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain tossed a smelly catnip mouse into the hallway, then dropped a trail of salmon bites behind them.
2. The villain waved a giant feather wand to clear the path, then gobbled down dried chicken bits on the way out.
3. The villain shined a bright laser pointer to distract the guard, then nibbled some fresh cat grass to calm their nerves.
4. The villain hid inside a giant cardboard box to slip past, then gobbled down dried chicken bits on the way out.
5. The villain waved a giant feather wand to clear the path, then splashed sweet milk drops all over the floor.
6. The villain rolled a heavy yarn ball down the stairs, then nibbled some fresh cat grass to calm their nerves.
7. The villain hid inside a giant cardboard box to slip past, then dropped a trail of salmon bites behind them.
8. The villain waved a giant feather wand to clear the path, then dropped a trail of salmon bites behind them.
9. The villain shined a bright laser pointer to distract the guard, then snacked on tasty tuna treats during the escape.
10. The villain hid inside a giant cardboard box to slip past, then snacked on tasty tuna treats during the escape.
11. The villain shined a bright laser pointer to distract the guard, then gobbled down dried chicken bits on the way out.
12. The villain shined a bright laser pointer to distract the guard, then splashed sweet milk drops all over the floor.

Answer Key

The Great Catnip Cup Caper

Culprit: Boots

laser pointer · cat grass · red collar · spotted fur · crinkly paper

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE BANDIT DOES NOT LIKE MILK DROPS"

Round 3,906 to the nearest thousand = 4000 (T) · Round 2,693 to the nearest thousand = 3000 (L) · Round 619 to the nearest hundred = 600 (H) · Round 7,658 to the nearest thousand = 8000 (P) · Round 839 to the nearest hundred = 800 (O) · Round 64 to the nearest ten = 60 (R) · Round 33 to the nearest ten = 30 (S) · Round 506 to the nearest hundred = 500 (K) · Round 73 to the nearest ten = 70 (A) · Round 90 to the nearest ten = 90 (D) · Round 1,850 to the nearest thousand = 2000 (I) · Round 391 to the nearest hundred = 400 (M) · Round 888 to the nearest hundred = 900 (B) · Round 82 to the nearest ten = 80 (E) · Round 655 to the nearest hundred = 700 (N)

Clue 2 (Addition): "THE SNEAKY CAT WEARS A RED COLLAR"

$474 + 510 = 984$ (T) · $541 + 301 = 842$ (W) · $327 + 157 = 484$ (O) · $107 + 173 = 280$ (C) · $367 + 373 = 740$ (S) · $146 + 170 = 316$ (N) · $346 + 550 = 896$ (E) · $289 + 498 = 787$ (Y) · $482 + 261 = 743$ (D) · $266 + 497 = 763$ (R) · $180 + 225 = 405$ (A) · $270 + 219 = 489$ (L) · $193 + 133 = 326$ (H) · $403 + 523 = 926$ (K)

Clue 3 (Subtraction): "THE CAT WILL STOP FOR CRINKLY PAPER"

$631 - 310 = 321$ (T) · $829 - 391 = 438$ (R) · $1267 - 387 = 880$ (N) · $883 - 279 = 604$ (C) · $1288 - 391 = 897$ (W) · $992 - 200 = 792$ (E) · $433 - 111 = 322$ (S) · $725 - 136 = 589$ (P) · $491 - 196 = 295$ (O) · $878 - 179 = 699$ (I) · $1134 - 251 = 883$ (Y) · $466 - 301 = 165$ (H) · $402 - 116 = 286$ (K) · $611 - 302 = 309$ (F) · $601 - 37 = 564$ (L) · $175 - 13 = 162$ (A)

Clue 4 (Multiplication facts (1-12)): "WE FOUND SPOTTED FUR AT THE SCENE"

$5 \times 9 = 45$ (W) · $7 \times 6 = 42$ (S) · $11 \times 9 = 99$ (C) · $1 \times 7 = 7$ (H) · $9 \times 3 = 27$ (P) · $2 \times 6 = 12$ (E) · $6 \times 9 = 54$ (F) · $11 \times 3 = 33$ (U) · $10 \times 6 = 60$ (R) · $11 \times 11 = 121$ (O) · $9 \times 9 = 81$ (N) · $4 \times 4 = 16$ (T) · $8 \times 4 = 32$ (A) · $8 \times 8 = 64$ (D)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Boots

$49 \div 7 = 7$ · $81 \div 9 = 9$ · $6 \div 3 = 2$ · $44 \div 4 = 11$ · $24 \div 3 = 8$ · $72 \div 12 = 6$ · $60 \div 5 = 12$ · $40 \div 8 = 5$ · $8 \div 2 = 4$ · $10 \div 10 = 1$ · $10 \div 1 = 10$