



The Great Fish Market Heist

Grade 4 math · Multiplication, Fractions of a number, Rounding, Addition · Reading level grades 3-4

Detective: _____ Date: _____

Oh no! Someone has snuck into the Golden Fish Market and snatched the legendary Sparkly Salmon! Detective Whiskers of the Mew-York Police Department needs your help to crack the case and find the thief.

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 the Catnip Bandit is _____

Possible suspects

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

NAME	CLAW SKILL	STEALTH GEAR	COLLAR COLOR	FUR COAT	FEAR
Tom	Silent Pounce	Squeaky Mouse	Blue Collar	Calico Patches	Crinkly Paper
Boots	Mega Meow	Shiny Bell	Blue Collar	Tabby Stripes	Cucumber Scare
Simba	High Jump	Feather Wand	Blue Collar	Tuxedo Coat	Water Squirt
Ziggy	Super Scratch	Shiny Bell	Red Collar	Calico Patches	Crinkly Paper
Morris	Mega Meow	Feather Wand	Blue Collar	Tabby Stripes	Crinkly Paper
Garfield	Super Scratch	Laser Pointer	Red Collar	Tabby Stripes	Crinkly Paper
Luna	Mega Meow	Laser Pointer	Blue Collar	Tuxedo Coat	Water Squirt
Figaro	Super Scratch	Shiny Bell	Blue Collar	Calico Patches	Crinkly Paper
Ginger	Super Scratch	Laser Pointer	Blue Collar	Calico Patches	Cucumber Scare
Smokey	High Jump	Cardboard Shield	Blue Collar	Tabby Stripes	Crinkly Paper
Socks	Fast Chase	Cardboard Shield	Red Collar	Tabby Stripes	Crinkly Paper
Barnaby	Silent Pounce	Laser Pointer	Blue Collar	Calico Patches	Cucumber Scare
Sylvester	Mega Meow	Squeaky Mouse	Red Collar	Tuxedo Coat	Water Squirt
Bella	High Jump	Squeaky Mouse	Blue Collar	Calico Patches	Crinkly Paper
Felix	High Jump	Feather Wand	Red Collar	Calico Patches	Crinkly Paper
Penelope	High Jump	Feather Wand	Blue Collar	Calico Patches	Crinkly Paper
Cleo	Silent Pounce	Shiny Bell	Red Collar	Calico Patches	Crinkly Paper
Milo	Fast Chase	Shiny Bell	Blue Collar	Tuxedo Coat	Crinkly Paper
Shadow	Super Scratch	Laser Pointer	Blue Collar	Tuxedo Coat	Crinkly Paper
Mittens	Super Scratch	Cardboard Shield	Blue Collar	Tuxedo Coat	Water Squirt
Chloe	Super Scratch	Cardboard Shield	Blue Collar	Calico Patches	Crinkly Paper

CLUE 1

Multiplication facts (1-12)

Detective Whiskers finds a stack of canned tuna arranged in neat rows. To find the total cans, we must multiply the rows together.

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

Diagram illustrating the decomposition of 110 into prime factors using a factor tree structure. The factors are arranged in two rows. The top row shows 110 decomposed into 6, 2, and 110, then 6 into 30, 4, 110, and 11, then 30 into 50, 4, 6, and 9, 11, and 110. The bottom row shows 44, 15, 110, 44, 6, 2, 110, 40, 5, 44, 50, and 30. The number 6 is highlighted in orange in both rows.

$$3 \times 2 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$4 \times 1 = \boxed{} \rightarrow \boxed{0}$$

$1 \times 2 = \boxed{} \rightarrow \boxed{\text{H}}$

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

$6 \times 11 = \boxed{} \rightarrow \boxed{}$

$10 \times 3 = \boxed{} \rightarrow \boxed{\text{D}}$

$4 \times 2 = \square \rightarrow \mathbf{B}$

$1 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$10 \times 11 = \boxed{} \rightarrow \boxed{\text{E}}$

$4 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{R}}$

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

$11 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$3 \times 5 = \square \rightarrow \boxed{\mathbf{F}}$

Scratch space:

CLUE 2
Fractions of a number

The alley cats agree to share a bowl of tasty treats. We need to find what fraction of the treats goes to each hungry kitten.

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

T									T					
30	6	14	3	23	3	33	14	32	30	27	8	22	14	12
3	6	40	20	9	10	15	23	14	32	8	15	15	12	22

$2/10 \text{ of } 150 = \square \rightarrow \text{ **T** }$

$3/6 \text{ of } 46 = \square \rightarrow \text{ **U** }$

$4/8 \text{ of } 80 = \square \rightarrow \text{ **I** }$

$4/10 \text{ of } 35 = \square \rightarrow \text{ **E** }$

$3/8 \text{ of } 16 = \square \rightarrow \text{ **H** }$

$3/10 \text{ of } 90 = \square \rightarrow \text{ **W** }$

$1/8 \text{ of } 80 = \square \rightarrow \text{ **B** }$

$1/5 \text{ of } 110 = \square \rightarrow \text{ **R** }$

$2/6 \text{ of } 45 = \square \rightarrow \text{ **L** }$

$2/4 \text{ of } 6 = \square \rightarrow \text{ **S** }$

$1/2 \text{ of } 66 = \square \rightarrow \text{ **P** }$

$5/8 \text{ of } 32 = \square \rightarrow \text{ **N** }$

$4/5 \text{ of } 40 = \square \rightarrow \text{ **C** }$

$8/10 \text{ of } 10 = \square \rightarrow \text{ **O** }$

$4/8 \text{ of } 18 = \square \rightarrow \text{ **Y** }$

$6/10 \text{ of } 20 = \square \rightarrow \text{ **A** }$

Scratch space:

CLUE 3 Rounding

The security laser scale only shows rounded numbers. We must round the heavy paw print weight to the nearest ten to unlock the gate.

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

T																	
370	2000	430	300	290	110	130	2900	290	9000	3700	30	900	130	5000	3000	1100	

						T							T				
90	700	90	430	30	300	370	290	90	90	430	2900	370	2000	430	500		

Round 368 to the nearest ten → **T**

Round 1,058 to the nearest hundred → **Y**

Round 134 to the nearest ten → **N**

Round 94 to the nearest ten → **P**

Round 431 to the nearest ten → **E**

Round 871 to the nearest hundred → **I**

Round 289 to the nearest ten → **O**

Round 8,739 to the nearest thousand → **F**

Round 2,879 to the nearest thousand → **L**

Round 1,824 to the nearest thousand → **H**

Round 3,743 to the nearest hundred → **C**

Round 31 to the nearest ten → **R**

Round 4,707 to the nearest thousand → **K**

Round 258 to the nearest hundred → **S**

Round 2,862 to the nearest hundred → **D**

Round 532 to the nearest hundred → **M**

Round 110 to the nearest ten → **U**

Round 748 to the nearest hundred → **A**

Scratch space:

CLUE 4

Addition

To follow the paw prints, we need to add up all the yarn balls found in the kitchen and the hallway.

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

T																		
6347	4565	8579	7145	8579	3772	3435	6417	2340	3435	5297	3776	2340	6106	7753	5880	7145		

			T			T												
5297	8579	7753	6347	7956	3208	6347	4565	8579	8251	6106	6106	7145						

$3892 + 2455 = \square \rightarrow \boxed{\text{T}}$

$3323 + 1974 = \square \rightarrow \boxed{\text{L}}$

$1326 + 2109 = \square \rightarrow \boxed{\text{A}}$

$4174 + 3579 = \square \rightarrow \boxed{\text{F}}$

$3119 + 1446 = \square \rightarrow \boxed{\text{H}}$

$1758 + 2018 = \square \rightarrow \boxed{\text{I}}$

$1610 + 1598 = \square \rightarrow \boxed{\text{Y}}$

$3468 + 2638 = \square \rightarrow \boxed{\text{O}}$

$796 + 1544 = \square \rightarrow \boxed{\text{C}}$

$2096 + 1676 = \square \rightarrow \boxed{\text{W}}$

$4564 + 3687 = \square \rightarrow \boxed{\text{D}}$

$4627 + 2518 = \square \rightarrow \boxed{\text{R}}$

$3740 + 4839 = \square \rightarrow \boxed{\text{E}}$

$3642 + 2775 = \square \rightarrow \boxed{\text{S}}$

$4079 + 1801 = \square \rightarrow \boxed{\text{U}}$

$4197 + 3759 = \square \rightarrow \boxed{\text{B}}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

The friendly neighborhood birds saw the bandit run past. If they share a box of crackers, we can find out who gets the biggest fraction.

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:

$2/4 \text{ of } 14 = \boxed{}$

$4/6 \text{ of } 9 = \boxed{}$

$1/4 \text{ of } 20 = \boxed{}$

$4/10 \text{ of } 25 = \boxed{}$

$4/8 \text{ of } 8 = \boxed{}$

$1/4 \text{ of } 36 = \boxed{}$

$2/3 \text{ of } 3 = \boxed{}$

$2/10 \text{ of } 40 = \boxed{}$

$2/8 \text{ of } 4 = \boxed{}$

$4/8 \text{ of } 24 = \boxed{}$

$2/10 \text{ of } 55 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain pounced silently from above, then rang a tiny shiny bell.
2. The villain pounced silently from above, then waved a bright feather wand.
3. The villain scratched the wooden walls, then blocked the security cameras with a cardboard shield.
4. The villain chased down the delivery van, then blocked the security cameras with a cardboard shield.
5. The villain pounced silently from above, then distracted the watchdogs with a squeaky mouse.
6. The villain jumped over the high fence, then distracted the watchdogs with a squeaky mouse.
7. The villain scratched the wooden walls, then rang a tiny shiny bell.
8. The villain meowed loudly to distract the guards, then rang a tiny shiny bell.
9. The villain pounced silently from above, then blocked the security cameras with a cardboard shield.
10. The villain pounced silently from above, then shined a glowing laser pointer.
11. The villain chased down the delivery van, then rang a tiny shiny bell.
12. The villain meowed loudly to distract the guards, then shined a glowing laser pointer.

Answer Key

The Great Fish Market Heist

Culprit: Chloe

Super Scratch · Cardboard Shield · Blue Collar · Calico Patches · Crinkly Paper

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT USE A FEATHER WAND"

$3 \times 2 = 6$ (T) · $1 \times 5 = 5$ (W) · $4 \times 1 = 4$ (O) · $1 \times 2 = 2$ (H) · $10 \times 5 = 50$ (N) · $6 \times 11 = 66$ (I) · $10 \times 3 = 30$ (D) · $4 \times 2 = 8$ (B) · $1 \times 11 = 11$ (S) · $10 \times 11 = 110$ (E) · $4 \times 10 = 40$ (R) · $3 \times 3 = 9$ (U) · $11 \times 4 = 44$ (A) · $3 \times 5 = 15$ (F)

Clue 2 (Fractions of a number): "THE SUSPECT WORE A SHINY BLUE COLLAR"

$2/10$ of 150 = 30 (T) · $3/6$ of 46 = 23 (U) · $4/8$ of 80 = 40 (I) · $4/10$ of 35 = 14 (E) · $3/8$ of 16 = 6 (H) · $3/10$ of 90 = 27 (W) · $1/8$ of 80 = 10 (B) · $1/5$ of 110 = 22 (R) · $2/6$ of 45 = 15 (L) · $2/4$ of 6 = 3 (S) · $1/2$ of 66 = 33 (P) · $5/8$ of 32 = 20 (N) · $4/5$ of 40 = 32 (C) · $8/10$ of 10 = 8 (O) · $4/8$ of 18 = 9 (Y) · $6/10$ of 20 = 12 (A)

Clue 3 (Rounding): "THE SOUND OF CRINKLY PAPER STOPPED THEM"

Round 368 to the nearest ten = 370 (T) · Round 1,058 to the nearest hundred = 1100 (Y) · Round 134 to the nearest ten = 130 (N) · Round 94 to the nearest ten = 90 (P) · Round 431 to the nearest ten = 430 (E) · Round 871 to the nearest hundred = 900 (I) · Round 289 to the nearest ten = 290 (O) · Round 8,739 to the nearest thousand = 9000 (F) · Round 2,879 to the nearest thousand = 3000 (L) · Round 1,824 to the nearest thousand = 2000 (H) · Round 3,743 to the nearest hundred = 3700 (C) · Round 31 to the nearest ten = 30 (R) · Round 4,707 to the nearest thousand = 5000 (K) · Round 258 to the nearest hundred = 300 (S) · Round 2,862 to the nearest hundred = 2900 (D) · Round 532 to the nearest hundred = 500 (M) · Round 110 to the nearest ten = 110 (U) · Round 748 to the nearest hundred = 700 (A)

Clue 4 (Addition): "THERE WAS CALICO FUR LEFT BY THE DOOR"

$3892 + 2455 = 6347$ (T) · $3323 + 1974 = 5297$ (L) · $1326 + 2109 = 3435$ (A) · $4174 + 3579 = 7753$ (F) · $3119 + 1446 = 4565$ (H) · $1758 + 2018 = 3776$ (I) · $1610 + 1598 = 3208$ (Y) · $3468 + 2638 = 6106$ (O) · $796 + 1544 = 2340$ (C) · $2096 + 1676 = 3772$ (W) · $4564 + 3687 = 8251$ (D) · $4627 + 2518 = 7145$ (R) · $3740 + 4839 = 8579$ (E) · $3642 + 2775 = 6417$ (S) · $4079 + 1801 = 5880$ (U) · $4197 + 3759 = 7956$ (B)

Clue 5 (Fractions of a number): surviving statement is box 3 → Chloe

$2/4$ of 14 = 7 · $4/6$ of 9 = 6 · $1/4$ of 20 = 5 · $4/10$ of 25 = 10 · $4/8$ of 8 = 4 · $1/4$ of 36 = 9 · $2/3$ of 3 = 2 · $2/10$ of 40 = 8 · $2/8$ of 4 = 1 · $4/8$ of 24 = 12 · $2/10$ of 55 = 11