



The Case of the Missing Golden Retriever

Grade 4 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone unlocked the playpen at Oakridge Animal Shelter and ran off with Barnaby, the star golden retriever puppy! Detective, analyze the clues left around the park to track down the thief and rescue Barnaby.

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 puppy snatcher is _____

Possible suspects

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

NAME	PUPPY LURE	DISGUISE GEAR	DOMINANT HAND	HAIRSTYLE	WEAKNESS
Janitor Joe	bacon chew strip	oversized trench coat	left handed	braided blonde hair	sudden spray bottle
Mayor Higgins	bacon chew strip	padded knee pads	left handed	curly auburn hair	sudden spray bottle
Farmer Fred	bacon chew strip	bright yellow rain hat	left handed	braided blonde hair	loud dog whistle
Driver Dan	squeaky rubber duck	reflective runner vest	right handed	curly auburn hair	sudden spray bottle
Chef Chloe	squeaky rubber duck	padded knee pads	left handed	braided blonde hair	sudden spray bottle
Inspector Ian	fleece tug rope	bright yellow rain hat	right handed	straight black hair	loud dog whistle
Walker Will	fleece tug rope	reflective runner vest	right handed	braided blonde hair	noisy rustling bag
Trainer Toby	peanut butter pouch	padded knee pads	left handed	curly auburn hair	sudden spray bottle
Warden Wade	peanut butter pouch	reflective runner vest	left handed	curly auburn hair	sudden spray bottle
Baker Brenda	fleece tug rope	padded knee pads	left handed	curly auburn hair	sudden spray bottle
Reporter Rosa	bacon chew strip	heavy leather gloves	left handed	curly auburn hair	sudden spray bottle
Agent Alex	bacon chew strip	bright yellow rain hat	left handed	curly auburn hair	loud dog whistle
Officer Pete	fleece tug rope	bright yellow rain hat	right handed	curly auburn hair	sudden spray bottle
Ranger Rita	bacon chew strip	reflective runner vest	right handed	curly auburn hair	loud dog whistle
Captain Cole	bacon chew strip	heavy leather gloves	right handed	braided blonde hair	sudden spray bottle
Groomer Gary	squeaky rubber duck	oversized trench coat	right handed	curly auburn hair	sudden spray bottle
Florist Faye	laser pointer toy	heavy leather gloves	left handed	straight black hair	noisy rustling bag
Teacher Tara	squeaky rubber duck	reflective runner vest	right handed	curly auburn hair	loud dog whistle
Nurse Clara	fleece tug rope	bright yellow rain hat	right handed	braided blonde hair	sudden spray bottle
Vet Vanessa	squeaky rubber duck	padded knee pads	right handed	braided blonde hair	loud dog whistle
Pilot Paul	peanut butter pouch	padded knee pads	left handed	braided blonde hair	noisy rustling bag

CLUE 1

Multiplication facts (1-12)

To figure out how many kibble bags were moved, multiply the rows of shelves by the bags per row.

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

T										T							T
70	54	72	2	108	63	40	8	99	70	7	99	7	12	32	70		

													T				
44	72	35	8	54	72	35	60	49	63	72	35	70	54	72	8		

77	63	32	60	72	4	

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

$1 \times 12 = \square \rightarrow \boxed{\text{N}}$

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

$7 \times 11 = \square \rightarrow \boxed{\text{G}}$

$9 \times 7 = \square \rightarrow \boxed{\text{L}}$

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

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

$9 \times 8 = \square \rightarrow \boxed{\text{E}}$

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

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

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

$2 \times 4 = \square \rightarrow \boxed{\text{R}}$

$2 \times 1 = \square \rightarrow \boxed{\text{C}}$

$11 \times 4 = \square \rightarrow \boxed{\text{W}}$

$9 \times 12 = \square \rightarrow \boxed{\text{U}}$

$5 \times 8 = \square \rightarrow \boxed{\text{P}}$

$4 \times 1 = \square \rightarrow \boxed{\text{S}}$

$7 \times 7 = \square \rightarrow \boxed{\text{Y}}$

Scratch space:

CLUE 2
Rounding

The digital scale registered the puppy crate weight, but the monitor rounds every number to the nearest ten.

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

W												W						
700	20	9000	30	50	290	290	50	290	290	2300	700	2300	370	50	1700	9000		
900	2300	30	2900	50	2900	5000	50	3700	290	430	30	370	50	2300	4300	20	30	110

Round 669 to the nearest hundred → **W**

Round 288 to the nearest ten → **S**

Round 3,730 to the nearest hundred → **R**

Round 2,948 to the nearest hundred → **D**

Round 28 to the nearest ten → **N**

Round 934 to the nearest hundred → **H**

Round 374 to the nearest ten → **L**

Round 8,821 to the nearest thousand → **T**

Round 19 to the nearest ten → **I**

Round 49 to the nearest ten → **E**

Round 1,674 to the nearest hundred → **F**

Round 4,316 to the nearest hundred → **V**

Round 433 to the nearest ten → **O**

Round 2,348 to the nearest hundred → **A**

Round 113 to the nearest ten → **G**

Round 5,077 to the nearest thousand → **P**

Scratch space:

CLUE 3 Addition

We added up the supply logs from the front desk and the back kennel to see how many leashes were missing.

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

T									T					T						
4358	2294	2234	9070	8457	9070	3928	2234	3664	4358	4276	8904	9070	9070	4358	6706	3928	3928	2234	4249	

									T	T			
6713	2376	8904	9070	3928	8019	8904	2376	6713	6706	4358	4358	2099	2234

$2682 + 1676 = \square \rightarrow \text{**T**}$

$1789 + 2487 = \square \rightarrow \text{**W**}$

$1524 + 2140 = \square \rightarrow \text{**C**}$

$3564 + 3149 = \square \rightarrow \text{**B**}$

$1832 + 2096 = \square \rightarrow \text{**P**}$

$1521 + 773 = \square \rightarrow \text{**H**}$

$1295 + 2954 = \square \rightarrow \text{**D**}$

$3462 + 4995 = \square \rightarrow \text{**U**}$

$1008 + 1226 = \square \rightarrow \text{**E**}$

$3589 + 4430 = \square \rightarrow \text{**R**}$

$765 + 1611 = \square \rightarrow \text{**Y**}$

$3523 + 3183 = \square \rightarrow \text{**O**}$

$938 + 1161 = \square \rightarrow \text{**L**}$

$6093 + 2977 = \square \rightarrow \text{**S**}$

$3859 + 5045 = \square \rightarrow \text{**A**}$

Scratch space:

CLUE 4

Subtraction

By subtracting the remaining tennis balls from the original box total, we tracked the thief's escape path.

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

A number line from 0 to 1000. The line is divided into 10 equal segments by 11 vertical tick marks. Below each tick mark is a box for a number. The numbers are: 3384, 7154, 2875, 2270, 4901, 2103, 3384, 1056, 4506, 3450, 6355, 2875, 7161, 4308, 2270, 6355, 8013, 6355, 2875, 4901. The number 3384 is highlighted in orange.

$$7557 - 4173 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$7862 - 3356 = \boxed{} \rightarrow \boxed{\text{F}}$$

$2109 - 6 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$10219 - 2206 = \boxed{} \rightarrow \boxed{\text{B}}$

$$10257 - 3902 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$7323 - 4301 = \boxed{} \rightarrow \boxed{}$$

$$4154 - 1884 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$7896 - 742 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$3506 - 631 = \boxed{} \rightarrow \boxed{\text{R}}$$

$8131 - 409 = \boxed{} \rightarrow \boxed{\text{E}}$

$$6239 - 1310 = \boxed{} \rightarrow \boxed{\text{H}}$$

$3823 - 1349 = \boxed{} \rightarrow \boxed{\text{W}}$

$$7664 - 4214 = \boxed{} \rightarrow \boxed{\text{C}}$$

$10704 - 3543 = \boxed{} \rightarrow \boxed{\text{L}}$

$$9143 - 4835 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$3135 - 2079 = \boxed{} \rightarrow \boxed{0}$$

$$8679 - 3778 = \boxed{} \rightarrow \boxed{\text{N}}$$

Scratch space:

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

The security team divided the treats equally among the search dogs to keep everyone energized.

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:

$20 \div 5 = \boxed{}$

$60 \div 5 = \boxed{}$

$2 \div 2 = \boxed{}$

$55 \div 11 = \boxed{}$

$8 \div 1 = \boxed{}$

$48 \div 8 = \boxed{}$

$90 \div 10 = \boxed{}$

$30 \div 3 = \boxed{}$

$6 \div 3 = \boxed{}$

$18 \div 6 = \boxed{}$

$35 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain tossed a fleece tug rope, then strapped on padded knee pads.
2. The villain opened a peanut butter pouch, then adjusted an oversized trench coat.
3. The villain tossed a fleece tug rope, then pulled down a bright yellow rain hat.
4. The villain opened a peanut butter pouch, then strapped on padded knee pads.
5. The villain offered a bacon chew strip, then put on heavy leather gloves.
6. The villain flashed a laser pointer toy, then strapped on padded knee pads.
7. The villain opened a peanut butter pouch, then pulled down a bright yellow rain hat.
8. The villain tossed a fleece tug rope, then tightened a reflective runner vest.
9. The villain offered a bacon chew strip, then tightened a reflective runner vest.
10. The villain flashed a laser pointer toy, then adjusted an oversized trench coat.
11. The villain opened a peanut butter pouch, then tightened a reflective runner vest.
12. The villain offered a bacon chew strip, then strapped on padded knee pads.

Answer Key

The Case of the Missing Golden Retriever

Culprit: Warden Wade

peanut butter pouch · reflective runner vest · left handed · curly auburn hair · sudden spray bottle

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE CULPRIT DID NOT WEAR HEAVY LEATHER GLOVES"

$7 \times 10 = 70$ (T) · $1 \times 12 = 12$ (N) · $7 \times 5 = 35$ (A) · $7 \times 11 = 77$ (G) · $9 \times 7 = 63$ (L) · $11 \times 9 = 99$ (I) · $6 \times 10 = 60$ (V) · $9 \times 8 = 72$ (E) · $4 \times 8 = 32$ (O) · $7 \times 1 = 7$ (D) · $9 \times 6 = 54$ (H) · $2 \times 4 = 8$ (R) · $2 \times 1 = 2$ (C) · $11 \times 4 = 44$ (W) · $9 \times 12 = 108$ (U) · $5 \times 8 = 40$ (P) · $4 \times 1 = 4$ (S) · $7 \times 7 = 49$ (Y)

Clue 2 (Rounding): "WITNESSES SAW A LEFT HANDED PERSON LEAVING"

Round 669 to the nearest hundred = 700 (W) · Round 288 to the nearest ten = 290 (S) · Round 3,730 to the nearest hundred = 3700 (R) · Round 2,948 to the nearest hundred = 2900 (D) · Round 28 to the nearest ten = 30 (N) · Round 934 to the nearest hundred = 900 (H) · Round 374 to the nearest ten = 370 (L) · Round 8,821 to the nearest thousand = 9000 (T) · Round 19 to the nearest ten = 20 (I) · Round 49 to the nearest ten = 50 (E) · Round 1,674 to the nearest hundred = 1700 (F) · Round 4,316 to the nearest hundred = 4300 (V) · Round 433 to the nearest ten = 430 (O) · Round 2,348 to the nearest hundred = 2300 (A) · Round 113 to the nearest ten = 110 (G) · Round 5,077 to the nearest thousand = 5000 (P)

Clue 3 (Addition): "THE SUSPECT WAS STOPPED BY A SPRAY BOTTLE"

$2682 + 1676 = 4358$ (T) · $1789 + 2487 = 4276$ (W) · $1524 + 2140 = 3664$ (C) · $3564 + 3149 = 6713$ (B) · $1832 + 2096 = 3928$ (P) · $1521 + 773 = 2294$ (H) · $1295 + 2954 = 4249$ (D) · $3462 + 4995 = 8457$ (U) · $1008 + 1226 = 2234$ (E) · $3589 + 4430 = 8019$ (R) · $765 + 1611 = 2376$ (Y) · $3523 + 3183 = 6706$ (O) · $938 + 1161 = 2099$ (L) · $6093 + 2977 = 9070$ (S) · $3859 + 5045 = 8904$ (A)

Clue 4 (Subtraction): "STRANDS OF CURLY AUBURN HAIR WERE ON THE LATCH"

$7557 - 4173 = 3384$ (S) · $7862 - 3356 = 4506$ (F) · $2109 - 6 = 2103$ (D) · $10219 - 2206 = 8013$ (B) · $10257 - 3902 = 6355$ (U) · $7323 - 4301 = 3022$ (I) · $4154 - 1884 = 2270$ (A) · $7896 - 742 = 7154$ (T) · $3506 - 631 = 2875$ (R) · $8131 - 409 = 7722$ (E) · $6239 - 1310 = 4929$ (H) · $3823 - 1349 = 2474$ (W) · $7664 - 4214 = 3450$ (C) · $10704 - 3543 = 7161$ (L) · $9143 - 4835 = 4308$ (Y) · $3135 - 2079 = 1056$ (O) · $8679 - 3778 = 4901$ (N)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Warden Wade

$20 \div 5 = 4$ · $60 \div 5 = 12$ · $2 \div 2 = 1$ · $55 \div 11 = 5$ · $8 \div 1 = 8$ · $48 \div 8 = 6$ · $90 \div 10 = 9$ · $30 \div 3 = 10$ · $6 \div 3 = 2$ · $18 \div 6 = 3$ · $35 \div 5 = 7$