



The Whispering Woods Mystery

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

Detective: _____ **Date:** _____

The Golden Acorn trophy has been swiped from the Whispering Woods Lodge! Ranger Sam needs the Junior Rangers to track down the sneaky animal who took it.

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 Wild Bandit is _____

Possible suspects

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

NAME	SUPER SKILL	POCKET GEAR	ACTIVE PAW	FUR PATTERN	FAVORITE TREAT
Buddy	Super Night Vision	Tiny Magnifying Glass	Left Pawed	Spotted Fur	Salty Sunflower Seeds
Chance	Swift Water Swimming	Bright Mini Lantern	Left Pawed	Solid Fur	Salty Sunflower Seeds
Toto	Swift Water Swimming	Tiny Magnifying Glass	Right Pawed	Solid Fur	Sweet Wild Berries
Bingo	Loud Forest Calling	Silver Whistle	Right Pawed	Solid Fur	Salty Sunflower Seeds
Buster	Loud Forest Calling	Canvas Map Satchel	Left Pawed	Striped Fur	Crunchy Peanut Butter
Bandit	Super Night Vision	Canvas Map Satchel	Right Pawed	Spotted Fur	Sweet Wild Berries
Flicka	Deep Dirt Digging	Silver Whistle	Right Pawed	Spotted Fur	Sweet Wild Berries
Ziggy	Swift Water Swimming	Silver Whistle	Right Pawed	Spotted Fur	Salty Sunflower Seeds
Marley	Super Night Vision	Shiny Brass Compass	Right Pawed	Solid Fur	Crunchy Peanut Butter
Koko	High Tree Climbing	Tiny Magnifying Glass	Left Pawed	Spotted Fur	Sweet Wild Berries
Milo	Swift Water Swimming	Shiny Brass Compass	Left Pawed	Solid Fur	Sweet Wild Berries
Togo	Super Night Vision	Shiny Brass Compass	Right Pawed	Spotted Fur	Sweet Wild Berries
Clifford	Deep Dirt Digging	Shiny Brass Compass	Right Pawed	Spotted Fur	Salty Sunflower Seeds
Pippin	Super Night Vision	Canvas Map Satchel	Right Pawed	Solid Fur	Crunchy Peanut Butter
Lassie	Swift Water Swimming	Tiny Magnifying Glass	Right Pawed	Striped Fur	Sweet Wild Berries
Shadow	Deep Dirt Digging	Tiny Magnifying Glass	Right Pawed	Spotted Fur	Crunchy Peanut Butter
Benji	Swift Water Swimming	Shiny Brass Compass	Right Pawed	Spotted Fur	Sweet Wild Berries
Balto	High Tree Climbing	Bright Mini Lantern	Right Pawed	Spotted Fur	Crunchy Peanut Butter
Comet	Loud Forest Calling	Silver Whistle	Left Pawed	Striped Fur	Sweet Wild Berries
Otis	Super Night Vision	Tiny Magnifying Glass	Right Pawed	Spotted Fur	Sweet Wild Berries
Barney	Loud Forest Calling	Shiny Brass Compass	Left Pawed	Striped Fur	Crunchy Peanut Butter

CLUE 1

Subtraction

Ranger Sam counted the snack bars in the pantry. Some were eaten by the thief. Subtract the leftover bars from the original stack to find out how many the bandit stole. This reveals our first big clue!

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

T								T							T			
6098	8988	7824	7112	7794	3301	7268	4089	6098	7268	8192	7824	4564	3301	8192	6098	3969	4564	7824

										T			
7794	4564	4089	8362	6919	7824	2652	6911	8988	4089	4564	6098	8362	7824

$8120 - 2022 = \square \rightarrow \boxed{\text{T}}$

$10202 - 3291 = \square \rightarrow \boxed{\text{W}}$

$8501 - 4532 = \square \rightarrow \boxed{\text{U}}$

$8411 - 1299 = \square \rightarrow \boxed{\text{B}}$

$7385 - 466 = \square \rightarrow \boxed{\text{V}}$

$11012 - 2650 = \square \rightarrow \boxed{\text{L}}$

$11018 - 3750 = \square \rightarrow \boxed{\text{D}}$

$7510 - 3421 = \square \rightarrow \boxed{\text{I}}$

$10806 - 2982 = \square \rightarrow \boxed{\text{E}}$

$7501 - 2937 = \square \rightarrow \boxed{\text{S}}$

$10760 - 1772 = \square \rightarrow \boxed{\text{H}}$

$9848 - 1656 = \square \rightarrow \boxed{\text{O}}$

$3234 - 582 = \square \rightarrow \boxed{\text{R}}$

$7633 - 4332 = \square \rightarrow \boxed{\text{N}}$

$10995 - 3201 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 2 Addition

We found two sets of paw prints heading toward the river. Add the prints from the muddy bank to the prints on the wooden dock. The total reveals the culprit's direction!

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

T																T
4912	2198	3393	8929	3320	3393	3001	4520	2192	6641	4640	4668	5071	6353	2786	4912	

								T		T					T
8929	5383	2786	5071	3393	8851	5383	2786	4912	2198	4912	2198	3393	6353	2786	7417

5071	3001	5383

2850 + 2062 = → T	2791 + 1877 = → L	2847 + 3506 = → R
3415 + 3226 = → C	2439 + 2944 = → W	3975 + 3442 = → G
1441 + 757 = → H	4746 + 4183 = → S	2813 + 1707 = → K
2852 + 2219 = → P	2034 + 2606 = → U	1301 + 1485 = → I
2089 + 912 = → A	2145 + 1248 = → E	710 + 1482 = → Y
2072 + 1248 = → N	5994 + 2857 = → D	

Scratch space:

CLUE 3
Multiplication facts (1-12)

The culprit dropped some acorns in equal rows. Multiply the number of rows by the acorns in each row to find the total. This reveals a secret about their gear!

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

T																T
30	44	27	2	100	4	4	70	100	14	16	70	14	14	12	30	
					T					T						
80	27	6	100	6	30	6	7	27	27	30	7	100	4	108		
99	27	80	80	100	27	6										

$6 \times 5 = \square \rightarrow$ T	$9 \times 12 = \square \rightarrow$ D	$3 \times 9 = \square \rightarrow$ E
$10 \times 10 = \square \rightarrow$ I	$1 \times 4 = \square \rightarrow$ L	$10 \times 8 = \square \rightarrow$ R
$6 \times 1 = \square \rightarrow$ S	$11 \times 4 = \square \rightarrow$ H	$8 \times 2 = \square \rightarrow$ C
$10 \times 7 = \square \rightarrow$ A	$11 \times 9 = \square \rightarrow$ B	$2 \times 1 = \square \rightarrow$ V
$3 \times 4 = \square \rightarrow$ O	$2 \times 7 = \square \rightarrow$ N	$7 \times 1 = \square \rightarrow$ W

Scratch space:

CLUE 4 Rounding

The motion camera caught a blurry flash of fur. The distance indicator shows a number that we need to round to the nearest ten. This rounded number unlocks the camera file!

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

T																T
2300	300	4300	9000	70	7000	110	1300	300	4300	3700	1300	7000	2900	90	300	2300
							T	T								
3700	1700	30	4300	3700	500	1700	2300	2300	4300	290	200	2900	70			

Round 2,334 to the nearest hundred → **T**

Round 2,868 to the nearest hundred → **U**

Round 1,329 to the nearest hundred → **C**

Round 70 to the nearest ten → **R**

Round 4,252 to the nearest hundred → **E**

Round 264 to the nearest hundred → **H**

Round 172 to the nearest hundred → **F**

Round 530 to the nearest hundred → **P**

Round 91 to the nearest ten → **G**

Round 112 to the nearest ten → **N**

Round 6,524 to the nearest thousand → **A**

Round 3,689 to the nearest hundred → **S**

Round 8,969 to the nearest thousand → **B**

Round 290 to the nearest ten → **D**

Round 1,684 to the nearest hundred → **O**

Round 33 to the nearest ten → **M**

Scratch space:

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

We have a bag of treats to share equally among our tracking dogs. Divide the treats evenly to get them ready to sniff out the last 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:

$36 \div 9 = \boxed{}$

$99 \div 11 = \boxed{}$

$9 \div 9 = \boxed{}$

$77 \div 7 = \boxed{}$

$120 \div 10 = \boxed{}$

$24 \div 12 = \boxed{}$

$12 \div 4 = \boxed{}$

$50 \div 5 = \boxed{}$

$42 \div 6 = \boxed{}$

$42 \div 7 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain navigated through the dark woods, then inspected the ground with a magnifying glass.
2. The villain climbed the tallest oak tree, then checked a shiny brass compass.
3. The villain howled to distract the guards, then tucked the loot into a canvas map satchel.
4. The villain crossed the rushing river, then checked a shiny brass compass.
5. The villain navigated through the dark woods, then tucked the loot into a canvas map satchel.
6. The villain howled to distract the guards, then blew a loud silver whistle.
7. The villain crossed the rushing river, then tucked the loot into a canvas map satchel.
8. The villain dug a tunnel under the fence, then tucked the loot into a canvas map satchel.
9. The villain navigated through the dark woods, then checked a shiny brass compass.
10. The villain howled to distract the guards, then checked a shiny brass compass.
11. The villain dug a tunnel under the fence, then blew a loud silver whistle.
12. The villain dug a tunnel under the fence, then checked a shiny brass compass.

Answer Key

The Whispering Woods Mystery

Culprit: Bandit

Super Night Vision · Canvas Map Satchel · Right Pawed · Spotted Fur · Sweet Wild Berries

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE BANDIT DOES NOT USE A SILVER WHISTLE"

$8120 - 2022 = 6098$ (T) · $10202 - 3291 = 6911$ (W) · $8501 - 4532 = 3969$ (U) · $8411 - 1299 = 7112$ (B) · $7385 - 466 = 6919$ (V) · $11012 - 2650 = 8362$ (L) · $11018 - 3750 = 7268$ (D) · $7510 - 3421 = 4089$ (I) · $10806 - 2982 = 7824$ (E) · $7501 - 2937 = 4564$ (S) · $10760 - 1772 = 8988$ (H) · $9848 - 1656 = 8192$ (O) · $3234 - 582 = 2652$ (R) · $7633 - 4332 = 3301$ (N) · $10995 - 3201 = 7794$ (A)

Clue 2 (Addition): "THE SNEAKY CULPRIT SWIPED WITH THE RIGHT PAW"

$2850 + 2062 = 4912$ (T) · $2791 + 1877 = 4668$ (L) · $2847 + 3506 = 6353$ (R) · $3415 + 3226 = 6641$ (C) · $2439 + 2944 = 5383$ (W) · $3975 + 3442 = 7417$ (G) · $1441 + 757 = 2198$ (H) · $4746 + 4183 = 8929$ (S) · $2813 + 1707 = 4520$ (K) · $2852 + 2219 = 5071$ (P) · $2034 + 2606 = 4640$ (U) · $1301 + 1485 = 2786$ (I) · $2089 + 912 = 3001$ (A) · $2145 + 1248 = 3393$ (E) · $710 + 1482 = 2192$ (Y) · $2072 + 1248 = 3320$ (N) · $5994 + 2857 = 8851$ (D)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN CANNOT RESIST SWEET WILD BERRIES"

$6 \times 5 = 30$ (T) · $9 \times 12 = 108$ (D) · $3 \times 9 = 27$ (E) · $10 \times 10 = 100$ (I) · $1 \times 4 = 4$ (L) · $10 \times 8 = 80$ (R) · $6 \times 1 = 6$ (S) · $11 \times 4 = 44$ (H) · $8 \times 2 = 16$ (C) · $10 \times 7 = 70$ (A) · $11 \times 9 = 99$ (B) · $2 \times 1 = 2$ (V) · $3 \times 4 = 12$ (O) · $2 \times 7 = 14$ (N) · $7 \times 1 = 7$ (W)

Clue 4 (Rounding): "THE BRANCHES CAUGHT SOME SPOTTED FUR"

Round 2,334 to the nearest hundred = 2300 (T) · Round 2,868 to the nearest hundred = 2900 (U) · Round 1,329 to the nearest hundred = 1300 (C) · Round 70 to the nearest ten = 70 (R) · Round 4,252 to the nearest hundred = 4300 (E) · Round 264 to the nearest hundred = 300 (H) · Round 172 to the nearest hundred = 200 (F) · Round 530 to the nearest hundred = 500 (P) · Round 91 to the nearest ten = 90 (G) · Round 112 to the nearest ten = 110 (N) · Round 6,524 to the nearest thousand = 7000 (A) · Round 3,689 to the nearest hundred = 3700 (S) · Round 8,969 to the nearest thousand = 9000 (B) · Round 290 to the nearest ten = 290 (D) · Round 1,684 to the nearest hundred = 1700 (O) · Round 33 to the nearest ten = 30 (M)

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

$36 \div 9 = 4$ · $99 \div 11 = 9$ · $9 \div 9 = 1$ · $77 \div 7 = 11$ · $120 \div 10 = 12$ · $24 \div 12 = 2$ · $12 \div 4 = 3$ · $50 \div 5 = 10$ · $42 \div 6 = 7$ · $42 \div 7 = 6$ · $24 \div 3 = 8$