



The Treehouse Trail Mystery

Grade 5 math · Place value, Multiplication, Rounding, Fractions of a number, Division · Reading level grades 3-4

Detective: _____ Date: _____

A sneaky rival has swiped the Golden Compass from the Treehouse Camp! We must search the jungle trails, solve the puzzles, and stop them before they sail away.

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 Masked Bandit is _____

Possible suspects

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

NAME	PRIMARY GEAR	SPECIAL SKILL	SHOE TRAIL	HAT COLOR	FEARED ANIMAL
Tess	brass spyglass	animal calling	clean sneakers	leaf green hat	buzzing wasps
Leo	jungle machete	hidden camouflage	muddy boots	ocean blue hat	ticklish crabs
Sam	grappling hook	treetop sprinting	clean sneakers	leaf green hat	buzzing wasps
Rex	grappling hook	hidden camouflage	muddy boots	leaf green hat	buzzing wasps
Joy	jungle machete	animal calling	clean sneakers	leaf green hat	noisy parrots
Ivy	climbing rope	treetop sprinting	clean sneakers	bright red hat	buzzing wasps
Hope	brass spyglass	map reading	clean sneakers	bright red hat	noisy parrots
Gabe	climbing rope	treetop sprinting	muddy boots	bright red hat	ticklish crabs
Mia	jungle machete	map reading	clean sneakers	leaf green hat	buzzing wasps
Max	climbing rope	hidden camouflage	clean sneakers	bright red hat	buzzing wasps
Dan	pocket radio	hidden camouflage	clean sneakers	leaf green hat	ticklish crabs
Jax	grappling hook	animal calling	clean sneakers	leaf green hat	noisy parrots
Eli	pocket radio	vine swinging	muddy boots	bright red hat	noisy parrots
Amy	brass spyglass	hidden camouflage	muddy boots	leaf green hat	buzzing wasps
Ned	pocket radio	treetop sprinting	muddy boots	ocean blue hat	buzzing wasps
Roy	jungle machete	vine swinging	clean sneakers	bright red hat	noisy parrots
Pip	pocket radio	treetop sprinting	muddy boots	ocean blue hat	ticklish crabs
Kim	climbing rope	map reading	clean sneakers	leaf green hat	buzzing wasps
Zoe	brass spyglass	map reading	muddy boots	leaf green hat	ticklish crabs
Otis	pocket radio	animal calling	clean sneakers	leaf green hat	buzzing wasps
Eva	grappling hook	treetop sprinting	clean sneakers	ocean blue hat	noisy parrots

CLUE 1

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

What is the value of the 6 in 89,869? → **T**

What is the value of the 3 in 63,815? → **P**

What is the value of the 2 in 484,424? → **E**

What is the value of the 2 in 942,969? → **A**

What is the value of the 8 in 38,757? → **R**

What is the value of the 7 in 24,756? → **D**

What is the value of the 5 in 215,362? → **G**

What is the value of the 8 in 793,833? → **H**

What is the value of the 5 in 93,502? → **B**

What is the value of the 9 in 449,518? → **N**

What is the value of the 7 in 37,489? →

What is the value of the 3 in 25,360? → **S**

What is the value of the 4 in 814,219? →

Scratch space:

CLUE 2
Multiplication facts (1-12)

To cross the stepping stones, we must count the rows of carved lizard tiles. Multiplying the rows reveals the path.

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

T																	
28	5	33	14	4	3	42	14	5	48	81	14	80	33	12	45		
54	77	33	4	3	14	5	48	33	7	12	72	3	28	14			

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

Scratch space:

CLUE 3 Rounding

Our handheld tracker beeped. The screen only shows the distance rounded to the nearest ten, but it is enough to track the thief.

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

A			A					A						A			
300	290	2300	300	4300	430	1100	50	300	3000	70	4300	90	2300	300	290	30	290

		A							A					
290	7000	300	4300	9000	900	2000	170	9000	3700	300	3000	900	130	2000

Round 317 to the nearest hundred → **A**

Round 26 to the nearest ten → **P**

Round 1,720 to the nearest thousand → **T**

Round 3,661 to the nearest hundred → **B**

Round 7,444 to the nearest thousand → **C**

Round 432 to the nearest ten → **M**

Round 287 to the nearest ten → **S**

Round 2,255 to the nearest hundred → **W**

Round 3,365 to the nearest thousand → **N**

Round 170 to the nearest ten → **H**

Round 8,996 to the nearest thousand → **E**

Round 72 to the nearest ten → **G**

Round 131 to the nearest ten → **I**

Round 1,056 to the nearest hundred → **O**

Round 46 to the nearest ten → **F**

Round 887 to the nearest hundred → **D**

Round 4,286 to the nearest hundred → **R**

Round 93 to the nearest ten → **Y**

Scratch space:

CLUE 4
Fractions of a number

A friendly monkey demands a fraction of our bananas before he will point us toward the thief's escape route.

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

W															
39	11	36	8	3	4	23	26	5	2	11	11	4	9	26	24

13	24	2	26	25	7	4	24	9	11	23	7	2	24

$3/10 \text{ of } 130 = \square \rightarrow \boxed{\text{W}}$

$2/6 \text{ of } 108 = \square \rightarrow \boxed{\text{F}}$

$1/5 \text{ of } 25 = \square \rightarrow \boxed{\text{G}}$

$1/3 \text{ of } 12 = \square \rightarrow \boxed{\text{N}}$

$2/8 \text{ of } 8 = \square \rightarrow \boxed{\text{R}}$

$7/10 \text{ of } 10 = \square \rightarrow \boxed{\text{I}}$

$1/6 \text{ of } 66 = \square \rightarrow \boxed{\text{E}}$

$2/4 \text{ of } 18 = \square \rightarrow \boxed{\text{H}}$

$2/6 \text{ of } 72 = \square \rightarrow \boxed{\text{T}}$

$2/4 \text{ of } 6 = \square \rightarrow \boxed{\text{U}}$

$2/10 \text{ of } 130 = \square \rightarrow \boxed{\text{A}}$

$1/8 \text{ of } 104 = \square \rightarrow \boxed{\text{S}}$

$2/4 \text{ of } 46 = \square \rightarrow \boxed{\text{D}}$

$2/8 \text{ of } 100 = \square \rightarrow \boxed{\text{P}}$

$3/6 \text{ of } 16 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

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

We find a heavy wooden chest locked with multiple keys. Dividing the keys equally into the locks pops the latch open.

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:

$66 \div 6 = \boxed{}$

$36 \div 3 = \boxed{}$

$30 \div 5 = \boxed{}$

$20 \div 5 = \boxed{}$

$24 \div 8 = \boxed{}$

$1 \div 1 = \boxed{}$

$72 \div 9 = \boxed{}$

$63 \div 9 = \boxed{}$

$22 \div 11 = \boxed{}$

$40 \div 4 = \boxed{}$

$25 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scans the far river through a brass spyglass, then escapes the area by treetop sprinting.
2. The villain checks for patrols on a pocket radio, then disappears by vine swinging.
3. The villain clears the thick path with a jungle machete, then disappears by vine swinging.
4. The villain scans the far river through a brass spyglass, then disappears by vine swinging.
5. The villain scales the rocky wall using a climbing rope, then fools the guard dogs with animal calling.
6. The villain checks for patrols on a pocket radio, then fools the guard dogs with animal calling.
7. The villain swings across the canyon with a grappling hook, then finds a shortcut by map reading.
8. The villain scans the far river through a brass spyglass, then finds a shortcut by map reading.
9. The villain clears the thick path with a jungle machete, then finds a shortcut by map reading.
10. The villain swings across the canyon with a grappling hook, then fools the guard dogs with animal calling.
11. The villain scales the rocky wall using a climbing rope, then finds a shortcut by map reading.
12. The villain scans the far river through a brass spyglass, then fools the guard dogs with animal calling.

Answer Key

The Treehouse Trail Mystery

Culprit: Mia

jungle machete · map reading · clean sneakers · leaf green hat · buzzing wasps

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE BANDIT DOES NOT DO TREETOP SPRINTING"

What is the value of the 6 in 89,869? = 60 (T) · What is the value of the 3 in 63,815? = 3000 (P) · What is the value of the 2 in 484,424? = 20 (E) · What is the value of the 2 in 942,969? = 2000 (A) · What is the value of the 8 in 38,757? = 8000 (R) · What is the value of the 7 in 24,756? = 700 (D) · What is the value of the 5 in 215,362? = 5000 (G) · What is the value of the 8 in 793,833? = 800 (H) · What is the value of the 5 in 93,502? = 500 (B) · What is the value of the 9 in 449,518? = 9000 (N) · What is the value of the 7 in 37,489? = 7000 (I) · What is the value of the 3 in 25,360? = 300 (S) · What is the value of the 4 in 814,219? = 4000 (O)

Clue 2 (Multiplication facts (1-12)): "THE SAND SHOWS VERY CLEAN SHOE PRINTS"

$4 \times 7 = 28$ (T) · $8 \times 10 = 80$ (V) · $11 \times 3 = 33$ (E) · $2 \times 7 = 14$ (S) · $5 \times 9 = 45$ (Y) · $3 \times 4 = 12$ (R) · $7 \times 11 = 77$ (L) · $1 \times 3 = 3$ (N) · $7 \times 1 = 7$ (P) · $12 \times 6 = 72$ (I) · $1 \times 4 = 4$ (A) · $7 \times 6 = 42$ (D) · $1 \times 5 = 5$ (H) · $9 \times 9 = 81$ (W) · $6 \times 9 = 54$ (C) · $6 \times 8 = 48$ (O)

Clue 3 (Rounding): "A SWARM OF ANGRY WASPS SCARED THE BANDIT"

Round 317 to the nearest hundred = 300 (A) · Round 26 to the nearest ten = 30 (P) · Round 1,720 to the nearest thousand = 2000 (T) · Round 3,661 to the nearest hundred = 3700 (B) · Round 7,444 to the nearest thousand = 7000 (C) · Round 432 to the nearest ten = 430 (M) · Round 287 to the nearest ten = 290 (S) · Round 2,255 to the nearest hundred = 2300 (W) · Round 3,365 to the nearest thousand = 3000 (N) · Round 170 to the nearest ten = 170 (H) · Round 8,996 to the nearest thousand = 9000 (E) · Round 72 to the nearest ten = 70 (G) · Round 131 to the nearest ten = 130 (I) · Round 1,056 to the nearest hundred = 1100 (O) · Round 46 to the nearest ten = 50 (F) · Round 887 to the nearest hundred = 900 (D) · Round 4,286 to the nearest hundred = 4300 (R) · Round 93 to the nearest ten = 90 (Y)

Clue 4 (Fractions of a number): "WE FOUND A GREEN HAT STRAP IN THE DIRT"

$3/10$ of 130 = 39 (W) · $2/6$ of 108 = 36 (F) · $1/5$ of 25 = 5 (G) · $1/3$ of 12 = 4 (N) · $2/8$ of 8 = 2 (R) · $7/10$ of 10 = 7 (I) · $1/6$ of 66 = 11 (E) · $2/4$ of 18 = 9 (H) · $2/6$ of 72 = 24 (T) · $2/4$ of 6 = 3 (U) · $2/10$ of 130 = 26 (A) · $1/8$ of 104 = 13 (S) · $2/4$ of 46 = 23 (D) · $2/8$ of 100 = 25 (P) · $3/6$ of 16 = 8 (O)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Mia

$66 \div 6 = 11$ · $36 \div 3 = 12$ · $30 \div 5 = 6$ · $20 \div 5 = 4$ · $24 \div 8 = 3$ · $1 \div 1 = 1$ · $72 \div 9 = 8$ · $63 \div 9 = 7$ · $22 \div 11 = 2$ · $40 \div 4 = 10$ · $25 \div 5 = 5$