



The Lost Ruby Monkey

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

Detective: _____ **Date:** _____

The golden vault of the Whispering Jungle Temple has been opened! Someone slipped past the stone traps and snatched the legendary Ruby Monkey. The Head Archeologist needs your help. Look at the clues, solve the math mysteries, and find out which explorer went rogue!

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 mischievous thief is _____

Possible suspects

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

NAME	ADVENTURE SKILL	BACKPACK GEAR	SWINGING ARM	HAIR STYLE	SILLY WEAKNESS
Leo	Map Reader	Super Canteen	Right-handed swing	Curly black hair	Afraid of spiders
Zoe	Beast Whisperer	Pocket Slingshot	Left-handed swing	Spiky brown hair	Afraid of spiders
Lara	Grappling Hook	Magnifying Glass	Left-handed swing	Curly black hair	Sneeze from pollen
Rex	Grappling Hook	Pocket Slingshot	Right-handed swing	Curly black hair	Afraid of spiders
Lily	Temple Runner	Pocket Slingshot	Left-handed swing	Curly black hair	Tickled by feathers
Ben	Beast Whisperer	Glow Lantern	Left-handed swing	Curly black hair	Afraid of spiders
Mia	Grappling Hook	Golden Compass	Right-handed swing	Curly black hair	Sneeze from pollen
Cleo	Beast Whisperer	Super Canteen	Right-handed swing	Spiky brown hair	Afraid of spiders
Max	Map Reader	Glow Lantern	Right-handed swing	Spiky brown hair	Afraid of spiders
Maya	Beast Whisperer	Magnifying Glass	Right-handed swing	Curly black hair	Afraid of spiders
Finn	Temple Runner	Super Canteen	Right-handed swing	Curly black hair	Afraid of spiders
Otis	Grappling Hook	Super Canteen	Right-handed swing	Curly black hair	Tickled by feathers
Sam	Grappling Hook	Golden Compass	Left-handed swing	Spiky brown hair	Afraid of spiders
Amy	Beast Whisperer	Super Canteen	Left-handed swing	Ponytail red hair	Tickled by feathers
Ruby	Vine Swinger	Golden Compass	Left-handed swing	Spiky brown hair	Tickled by feathers
Kai	Map Reader	Magnifying Glass	Left-handed swing	Spiky brown hair	Tickled by feathers
Ella	Vine Swinger	Pocket Slingshot	Right-handed swing	Curly black hair	Afraid of spiders
Toby	Beast Whisperer	Magnifying Glass	Left-handed swing	Spiky brown hair	Sneeze from pollen
Hugo	Beast Whisperer	Golden Compass	Left-handed swing	Spiky brown hair	Afraid of spiders
Ivy	Grappling Hook	Golden Compass	Right-handed swing	Spiky brown hair	Sneeze from pollen
Nova	Beast Whisperer	Golden Compass	Left-handed swing	Ponytail red hair	Sneeze from pollen

CLUE 1

Your high-tech jungle radar can estimate distances, but it only shows numbers rounded to the nearest ten. Round the radar readings to unlock the first clue.

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

Diagram illustrating a 2D array structure with 2 rows and 15 columns. The values are as follows:

9000	2300	130	2900	3000	700	700	70	3000	370	2000	230	130	900	370	230	9000			
2300	70	2900	130	70	1300	70	30	370	3000	170	300	3000	370	30	30	700	70	900	900

Round 8,559 to the nearest thousand $\rightarrow$ **T**

Round 862 to the nearest hundred $\rightarrow$ **S**

Round 2,576 to the nearest thousand $\rightarrow$

Round 29 to the nearest ten $\rightarrow$ **G**

Round 173 to the nearest ten → **F**

Round 132 to the nearest ten → **E**

Round 265 to the nearest hundred $\rightarrow$ **Y**

Round 71 to the nearest ten → **A**

Round 229 to the nearest ten $\rightarrow$ **0**

Round 2,269 to the nearest hundred $\rightarrow$ **H**

Round 743 to the nearest hundred $\rightarrow$ **L**

Round 370 to the nearest ten $\rightarrow$ **N**

Round 2,394 to the nearest thousand $\rightarrow$ **D**

Round 1,306 to the nearest hundred $\rightarrow$ **M**

Round 2,890 to the nearest hundred $\rightarrow$ **V**

Scratch space:

CLUE 2 Addition

To cross the crocodile river, you must step on the stone paths. Add up the numbers carved into the safe stepping stones to find your next lead.

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

T 6986	8380	2452	T 6986	8380	2739	2452	3175	7405	9330	2906	5859	4700	2906	8927	9330	2077	8743	5269
2906	7405	2739	5859	4700	T 6986	8380	2452	8743	2739	4700	8380	T 6986	8380	2077	5859	5269		

$2634 + 4352 = \square \rightarrow \text{T}$	$5636 + 3694 = \square \rightarrow \text{W}$	$2118 + 3151 = \square \rightarrow \text{D}$
$1517 + 1222 = \square \rightarrow \text{I}$	$3744 + 2115 = \square \rightarrow \text{N}$	$1108 + 1344 = \square \rightarrow \text{E}$
$2960 + 5967 = \square \rightarrow \text{P}$	$1227 + 1948 = \square \rightarrow \text{F}$	$3135 + 4270 = \square \rightarrow \text{S}$
$2201 + 2499 = \square \rightarrow \text{G}$	$2000 + 906 = \square \rightarrow \text{U}$	$4937 + 3806 = \square \rightarrow \text{R}$
$631 + 1446 = \square \rightarrow \text{A}$	$5490 + 2890 = \square \rightarrow \text{H}$	

Scratch space:

CLUE 3
Subtraction

You find a bag of trail mix dropped by the thief. Subtract the spilled crumbs from the original total to see which way they ran.

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

W						W											
6724	1380	2035	3027	1937	7262	2665	6724	1380	2440	8375	2440	1937	5757	5757	7844	1380	
								W									
5757	7844	3766	1380	2035	8736	5305	7262	5305	6724	5305	7775	8375	1341	5305	8736	1380	2665

$9795 - 3071 = \boxed{} \rightarrow \boxed{W}$

$4062 - 2682 = \boxed{} \rightarrow \boxed{E}$

$9225 - 489 = \boxed{} \rightarrow \boxed{R}$

$8129 - 354 = \boxed{} \rightarrow \boxed{Y}$

$7775 - 2018 = \boxed{} \rightarrow \boxed{T}$

$7781 - 4015 = \boxed{} \rightarrow \boxed{I}$

$9895 - 1520 = \boxed{} \rightarrow \boxed{S}$

$6923 - 4258 = \boxed{} \rightarrow \boxed{D}$

$3689 - 1654 = \boxed{} \rightarrow \boxed{F}$

$6646 - 3619 = \boxed{} \rightarrow \boxed{O}$

$9720 - 1876 = \boxed{} \rightarrow \boxed{H}$

$4931 - 3590 = \boxed{} \rightarrow \boxed{C}$

$3360 - 1423 = \boxed{} \rightarrow \boxed{U}$

$10290 - 4985 = \boxed{} \rightarrow \boxed{A}$

$11799 - 4537 = \boxed{} \rightarrow \boxed{N}$

$2945 - 505 = \boxed{} \rightarrow \boxed{B}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

A wall of locked stone buttons stands before you. Multiply the number of rows by columns to press the right code and open the clue box.

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

C									C									
60	48	90	5	2	25	5	121	60	16	7	27	90	121	44	1	7		
																C		
77	72	90	72	5	72	21	27	40	44	27	22	72	25	90	121	44	60	22

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

Scratch space:

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

You find a bundle of jungle vines. If you divide the vine evenly among your search team, the leftovers will point to the final secret.

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:

$60 \div 10 = \boxed{}$

$35 \div 5 = \boxed{}$

$3 \div 1 = \boxed{}$

$10 \div 10 = \boxed{}$

$50 \div 10 = \boxed{}$

$54 \div 6 = \boxed{}$

$10 \div 1 = \boxed{}$

$32 \div 4 = \boxed{}$

$4 \div 1 = \boxed{}$

$2 \div 1 = \boxed{}$

$44 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain whispered to the temple panthers to pass safely, then shot a target with a pocket slingshot.
2. The villain whispered to the temple panthers to pass safely, then followed the golden compass north.
3. The villain used a grappling hook to climb the wall, then shot a target with a pocket slingshot.
4. The villain read the ancient map to bypass the maze, then examined the small hidden lever with a magnifying glass.
5. The villain dashed past the rolling boulder traps, then lit up the dark tunnel with a glow lantern.
6. The villain swung across the deep pit on a wild vine, then shot a target with a pocket slingshot.
7. The villain read the ancient map to bypass the maze, then drank cold water from a super canteen.
8. The villain swung across the deep pit on a wild vine, then drank cold water from a super canteen.
9. The villain read the ancient map to bypass the maze, then lit up the dark tunnel with a glow lantern.
10. The villain whispered to the temple panthers to pass safely, then lit up the dark tunnel with a glow lantern.
11. The villain dashed past the rolling boulder traps, then followed the golden compass north.
12. The villain dashed past the rolling boulder traps, then drank cold water from a super canteen.

Answer Key

The Lost Ruby Monkey

Culprit: Finn

Temple Runner · Super Canteen · Right-handed swing · Curly black hair · Afraid of spiders

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT HAVE A MAGNIFYING GLASS"

Round 8,559 to the nearest thousand = 9000 (T) · Round 862 to the nearest hundred = 900 (S) · Round 2,576 to the nearest thousand = 3000 (I) · Round 29 to the nearest ten = 30 (G) · Round 173 to the nearest ten = 170 (F) · Round 132 to the nearest ten = 130 (E) · Round 265 to the nearest hundred = 300 (Y) · Round 71 to the nearest ten = 70 (A) · Round 229 to the nearest ten = 230 (O) · Round 2,269 to the nearest hundred = 2300 (H) · Round 743 to the nearest hundred = 700 (L) · Round 370 to the nearest ten = 370 (N) · Round 2,394 to the nearest thousand = 2000 (D) · Round 1,306 to the nearest hundred = 1300 (M) · Round 2,890 to the nearest hundred = 2900 (V)

Clue 2 (Addition): "THE THIEF SWUNG UPWARD USING THE RIGHT HAND"

$2634 + 4352 = 6986$ (T) · $5636 + 3694 = 9330$ (W) · $2118 + 3151 = 5269$ (D) · $1517 + 1222 = 2739$ (I) · $3744 + 2115 = 5859$ (N) · $1108 + 1344 = 2452$ (E) · $2960 + 5967 = 8927$ (P) · $1227 + 1948 = 3175$ (F) · $3135 + 4270 = 7405$ (S) · $2201 + 2499 = 4700$ (G) · $2000 + 906 = 2906$ (U) · $4937 + 3806 = 8743$ (R) · $631 + 1446 = 2077$ (A) · $5490 + 2890 = 8380$ (H)

Clue 3 (Subtraction): "WE FOUND WEBS BUT THE THIEF RAN AWAY SCARED"

$9795 - 3071 = 6724$ (W) · $4062 - 2682 = 1380$ (E) · $9225 - 489 = 8736$ (R) · $8129 - 354 = 7775$ (Y) · $7775 - 2018 = 5757$ (T) · $7781 - 4015 = 3766$ (I) · $9895 - 1520 = 8375$ (S) · $6923 - 4258 = 2665$ (D) · $3689 - 1654 = 2035$ (F) · $6646 - 3619 = 3027$ (O) · $9720 - 1876 = 7844$ (H) · $4931 - 3590 = 1341$ (C) · $3360 - 1423 = 1937$ (U) · $10290 - 4985 = 5305$ (A) · $11799 - 4537 = 7262$ (N) · $2945 - 505 = 2440$ (B)

Clue 4 (Multiplication facts (1-12)): "CURLY BLACK STRANDS WERE LEFT ON THE BRANCH"

$12 \times 5 = 60$ (C) · $6 \times 8 = 48$ (U) · $4 \times 4 = 16$ (K) · $1 \times 7 = 7$ (S) · $3 \times 9 = 27$ (T) · $11 \times 2 = 22$ (H) · $5 \times 1 = 5$ (L) · $1 \times 1 = 1$ (D) · $5 \times 5 = 25$ (B) · $10 \times 9 = 90$ (R) · $6 \times 12 = 72$ (E) · $7 \times 3 = 21$ (F) · $5 \times 8 = 40$ (O) · $11 \times 11 = 121$ (A) · $7 \times 11 = 77$ (W) · $2 \times 1 = 2$ (Y) · $4 \times 11 = 44$ (N)

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

$60 \div 10 = 6$ · $35 \div 5 = 7$ · $3 \div 1 = 3$ · $10 \div 10 = 1$ · $50 \div 10 = 5$ · $54 \div 6 = 9$ · $10 \div 1 = 10$ · $32 \div 4 = 8$ · $4 \div 1 = 4$ · $2 \div 1 = 2$ · $44 \div 4 = 11$