



The Mystery of the Golden Banana

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

Detective: _____ Date: _____

The Golden Banana has disappeared from the Treehouse Camp! The camp leader is shocked. Only the Shadow Sneak could have cracked the ancient jungle vault. Grab your gear, because we have a mystery to solve!

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 Shadow Sneak is _____

Possible suspects

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

NAME	JUNGLE TOOL	SPECIAL BADGE	NOTE WRITING HAND	BANDANA COLOR	SCARES EASILY BY
Oliver	Grapevine Whip	Parrot Badge	Left Handed	Green Bandana	Shiny Mirrors
Abigail	Explorer Scope	Frog Badge	Left Handed	Red Bandana	Shiny Mirrors
Annie	Explorer Scope	Parrot Badge	Left Handed	Red Bandana	Squeaky Toys
Quincy	Grapevine Whip	Monkey Badge	Left Handed	Green Bandana	Squeaky Toys
Diego	Compass	Monkey Badge	Left Handed	Red Bandana	Squeaky Toys
Riley	Compass	Monkey Badge	Right Handed	Red Bandana	Loud Whistles
Clara	Mapping Tablet	Snake Badge	Right Handed	Red Bandana	Loud Whistles
Arthur	Grapevine Whip	Tiger Badge	Left Handed	Red Bandana	Shiny Mirrors
Jack	Rope Launcher	Frog Badge	Right Handed	Green Bandana	Loud Whistles
Marcus	Explorer Scope	Tiger Badge	Left Handed	Red Bandana	Shiny Mirrors
Penny	Mapping Tablet	Tiger Badge	Left Handed	Red Bandana	Squeaky Toys
June	Mapping Tablet	Snake Badge	Left Handed	Red Bandana	Shiny Mirrors
Sally	Grapevine Whip	Frog Badge	Left Handed	Red Bandana	Shiny Mirrors
Mae	Rope Launcher	Parrot Badge	Left Handed	Red Bandana	Loud Whistles
Toby	Grapevine Whip	Parrot Badge	Right Handed	Red Bandana	Shiny Mirrors
Leo	Rope Launcher	Tiger Badge	Left Handed	Green Bandana	Squeaky Toys
Lara	Grapevine Whip	Tiger Badge	Right Handed	Red Bandana	Loud Whistles
Sydney	Grapevine Whip	Tiger Badge	Right Handed	Green Bandana	Shiny Mirrors
Ben	Explorer Scope	Snake Badge	Left Handed	Green Bandana	Loud Whistles
Dora	Grapevine Whip	Snake Badge	Right Handed	Green Bandana	Loud Whistles
Jane	Grapevine Whip	Tiger Badge	Left Handed	Blue Bandana	Loud Whistles

CLUE 1 Rounding

A blurry tracking map only shows rounded distances to the nearest ten yards. Help the Treehouse Club estimate where the thief ran.

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

T			T											T				
70	2000	3000	70	2000	8000	3000	9000	4000	6000	3000	600	800	6000	70	300	3000	40	400
T																		
70	2000	3000	600	800	40	50	3000	80	40	4000	900	3000						

Round 68 to the nearest ten → **T**

Round 51 to the nearest ten → **K**

Round 319 to the nearest hundred → **W**

Round 1,877 to the nearest thousand → **H**

Round 78 to the nearest ten → **B**

Round 647 to the nearest hundred → **S**

Round 433 to the nearest hundred → **R**

Round 4,479 to the nearest thousand → **D**

Round 6,114 to the nearest thousand → **O**

Round 8,245 to the nearest thousand → **I**

Round 8,683 to the nearest thousand → **F**

Round 2,783 to the nearest thousand → **E**

Round 794 to the nearest hundred → **N**

Round 861 to the nearest hundred → **G**

Round 43 to the nearest ten → **A**

Scratch space:

CLUE 2 Addition

We found a pile of dropped supplies! Count the total number of items to see what else might be missing.

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

L																			
363	355	319	981	562	340	512	891	355	891	319	436	436	981	880	817	678	512	981	502

584	312	981	562	355	817	293	678	512	502

$236 + 127 = \boxed{} \rightarrow \boxed{\text{L}}$

$190 + 165 = \boxed{} \rightarrow \boxed{\text{E}}$

$223 + 117 = \boxed{} \rightarrow \boxed{\text{A}}$

$422 + 469 = \boxed{} \rightarrow \boxed{\text{D}}$

$236 + 200 = \boxed{} \rightarrow \boxed{\text{O}}$

$218 + 101 = \boxed{} \rightarrow \boxed{\text{F}}$

$122 + 190 = \boxed{} \rightarrow \boxed{\text{Y}}$

$304 + 576 = \boxed{} \rightarrow \boxed{\text{P}}$

$203 + 299 = \boxed{} \rightarrow \boxed{\text{S}}$

$355 + 207 = \boxed{} \rightarrow \boxed{\text{H}}$

$188 + 396 = \boxed{} \rightarrow \boxed{\text{B}}$

$452 + 226 = \boxed{} \rightarrow \boxed{\text{I}}$

$527 + 290 = \boxed{} \rightarrow \boxed{\text{R}}$

$623 + 358 = \boxed{} \rightarrow \boxed{\text{T}}$

$187 + 106 = \boxed{} \rightarrow \boxed{\text{U}}$

$160 + 352 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3

Subtraction

The camp supply chest was raided. Work out how many juice boxes were taken from the pile.

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

T			T															
546	895	166	546	895	160	166	872	400	895	745	124	452	518	872	745	626	273	783
400	895	160	452	366	273	160	745	745	626	745								

$908 - 362 = \square \rightarrow \boxed{\text{T}}$

$838 - 320 = \square \rightarrow \boxed{\text{K}}$

$646 - 246 = \square \rightarrow \boxed{\text{S}}$

$837 - 385 = \square \rightarrow \boxed{\text{N}}$

$933 - 61 = \square \rightarrow \boxed{\text{F}}$

$1065 - 320 = \square \rightarrow \boxed{\text{R}}$

$565 - 199 = \square \rightarrow \boxed{\text{Y}}$

$292 - 19 = \square \rightarrow \boxed{\text{M}}$

$291 - 125 = \square \rightarrow \boxed{\text{E}}$

$875 - 92 = \square \rightarrow \boxed{\text{A}}$

$334 - 210 = \square \rightarrow \boxed{\text{U}}$

$1122 - 227 = \square \rightarrow \boxed{\text{H}}$

$490 - 330 = \square \rightarrow \boxed{\text{I}}$

$1013 - 387 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The path ahead is blocked by rows of ancient stepping stones. Multiply the rows to find the safe path.

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

W																
72	64	20	8	144	21	54	90	66	15	64	81	54	99	8	20	81
15	64	54	40	81	21	54	81	21	81							

$6 \times 12 = \square \rightarrow \boxed{\text{W}}$

$10 \times 9 = \square \rightarrow \boxed{\text{T}}$

$4 \times 5 = \square \rightarrow \boxed{\text{F}}$

$6 \times 11 = \square \rightarrow \boxed{\text{H}}$

$7 \times 3 = \square \rightarrow \boxed{\text{N}}$

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

$9 \times 9 = \square \rightarrow \boxed{\text{A}}$

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

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

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

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

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

$5 \times 3 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

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

We found a bag of glowing trail markers. Divide them evenly among the team members to light our way.

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:

$11 \div 11 = \square$

$63 \div 7 = \square$

$60 \div 10 = \square$

$30 \div 3 = \square$

$77 \div 7 = \square$

$20 \div 10 = \square$

$32 \div 8 = \square$

$10 \div 2 = \square$

$132 \div 11 = \square$

$88 \div 11 = \square$

$77 \div 11 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain scouted the camp with an explorer scope, then shuffled away while wearing a tiger badge.
2. The villain swung across the canyon with a grapevine whip, then slithered through the brush wearing a snake badge.
3. The villain swung across the canyon with a grapevine whip, then shuffled away while wearing a tiger badge.
4. The villain zoomed through the trees using a rope launcher, then dashed past the tents wearing a parrot badge.
5. The villain tracked the path with a mapping tablet, then hopped over the logs wearing a monkey badge.
6. The villain scouted the camp with an explorer scope, then leaped over the puddle wearing a frog badge.
7. The villain tracked the path with a mapping tablet, then slithered through the brush wearing a snake badge.
8. The villain swung across the canyon with a grapevine whip, then dashed past the tents wearing a parrot badge.
9. The villain swung across the canyon with a grapevine whip, then leaped over the puddle wearing a frog badge.
10. The villain zoomed through the trees using a rope launcher, then hopped over the logs wearing a monkey badge.
11. The villain found the secret door with a compass, then hopped over the logs wearing a monkey badge.
12. The villain swung across the canyon with a grapevine whip, then hopped over the logs wearing a monkey badge.

Answer Key

The Mystery of the Golden Banana

Culprit: Arthur

Grapevine Whip · Tiger Badge · Left Handed · Red Bandana · Shiny Mirrors

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

Clue 1 (Rounding): "THE THIEF DOES NOT WEAR THE SNAKE BADGE"

Round 68 to the nearest ten = 70 (T) · Round 51 to the nearest ten = 50 (K) · Round 319 to the nearest hundred = 300 (W) · Round 1,877 to the nearest thousand = 2000 (H) · Round 78 to the nearest ten = 80 (B) · Round 647 to the nearest hundred = 600 (S) · Round 433 to the nearest hundred = 400 (R) · Round 4,479 to the nearest thousand = 4000 (D) · Round 6,114 to the nearest thousand = 6000 (O) · Round 8,245 to the nearest thousand = 8000 (I) · Round 8,683 to the nearest thousand = 9000 (F) · Round 2,783 to the nearest thousand = 3000 (E) · Round 794 to the nearest hundred = 800 (N) · Round 861 to the nearest hundred = 900 (G) · Round 43 to the nearest ten = 40 (A)

Clue 2 (Addition): "LEFT HANDED FOOTPRINTS BY THE RUINS"

$236 + 127 = 363$ (L) · $190 + 165 = 355$ (E) · $223 + 117 = 340$ (A) · $422 + 469 = 891$ (D) · $236 + 200 = 436$ (O) · $218 + 101 = 319$ (F) · $122 + 190 = 312$ (Y) · $304 + 576 = 880$ (P) · $203 + 299 = 502$ (S) · $355 + 207 = 562$ (H) · $188 + 396 = 584$ (B) · $452 + 226 = 678$ (I) · $527 + 290 = 817$ (R) · $623 + 358 = 981$ (T) · $187 + 106 = 293$ (U) · $160 + 352 = 512$ (N)

Clue 3 (Subtraction): "THE THIEF SHRUNK FROM A SHINY MIRROR"

$908 - 362 = 546$ (T) · $838 - 320 = 518$ (K) · $646 - 246 = 400$ (S) · $837 - 385 = 452$ (N) · $933 - 61 = 872$ (F) · $1065 - 320 = 745$ (R) · $565 - 199 = 366$ (Y) · $292 - 19 = 273$ (M) · $291 - 125 = 166$ (E) · $875 - 92 = 783$ (A) · $334 - 210 = 124$ (U) · $1122 - 227 = 895$ (H) · $490 - 330 = 160$ (I) · $1013 - 387 = 626$ (O)

Clue 4 (Multiplication facts (1-12)): "WE FOUND THREADS OF A RED BANDANA"

$6 \times 12 = 72$ (W) · $10 \times 9 = 90$ (T) · $4 \times 5 = 20$ (F) · $6 \times 11 = 66$ (H) · $7 \times 3 = 21$ (N) · $4 \times 2 = 8$ (O) · $9 \times 9 = 81$ (A) · $9 \times 6 = 54$ (D) · $12 \times 12 = 144$ (U) · $8 \times 8 = 64$ (E) · $8 \times 5 = 40$ (B) · $9 \times 11 = 99$ (S) · $5 \times 3 = 15$ (R)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Arthur

$11 \div 11 = 1$ · $63 \div 7 = 9$ · $60 \div 10 = 6$ · $30 \div 3 = 10$ · $77 \div 7 = 11$ · $20 \div 10 = 2$ · $32 \div 8 = 4$ · $10 \div 2 = 5$ · $132 \div 11 = 12$ · $88 \div 11 = 8$ · $77 \div 11 = 7$