



The Treehouse Raider

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 1-2

Detective: _____ Date: _____

Oh no! The Golden Spyglass is missing from the Treehouse Club. A sneaky Treehouse Raider took it! We must find out who did it before the sun goes down.

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 Treehouse Raider is _____

Possible suspects

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

NAME	CLUB BADGE	POCKET TOOL	WRITE HAND	HAIR COLOR	FEAR
Luke	leaf badge	rope	right handed	neat brown hair	scared of spiders
Zoe	crown badge	chalk	left handed	neat brown hair	scared of frogs
Eli	star badge	chalk	left handed	wild red hair	scared of frogs
Max	leaf badge	magnifier	right handed	neat brown hair	scared of frogs
Sora	crown badge	chalk	right handed	messy yellow hair	scared of spiders
Leo	star badge	chalk	left handed	neat brown hair	scared of bees
Nova	leaf badge	magnifier	left handed	neat brown hair	scared of frogs
Finn	leaf badge	flashlight	left handed	messy yellow hair	scared of frogs
Ella	star badge	whistle	left handed	wild red hair	scared of bees
Ruby	map badge	chalk	right handed	messy yellow hair	scared of bees
Toby	star badge	chalk	right handed	messy yellow hair	scared of bees
Ava	owl badge	chalk	right handed	neat brown hair	scared of bees
Cora	leaf badge	flashlight	left handed	wild red hair	scared of spiders
Roy	leaf badge	flashlight	right handed	neat brown hair	scared of spiders
Ben	star badge	chalk	right handed	wild red hair	scared of bees
Sam	owl badge	chalk	left handed	neat brown hair	scared of frogs
Hugo	star badge	rope	left handed	messy yellow hair	scared of frogs
Otis	crown badge	flashlight	left handed	neat brown hair	scared of spiders
Ivy	crown badge	rope	left handed	neat brown hair	scared of frogs
Lily	crown badge	rope	left handed	wild red hair	scared of frogs
Joy	leaf badge	whistle	left handed	neat brown hair	scared of frogs

CLUE 1 Rounding

We found a broken walkie talkie. The screen shows a rounded number of steps.

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

Diagram illustrating a sequence of numbers and their corresponding positions (represented by boxes). The sequence is divided into two rows.

Top Row (18 boxes):

- Box 1: T
- Box 2: 200
- Box 3: 3700
- Box 4: 500
- Box 5: 20
- Box 6: 300
- Box 7: 430
- Box 8: 430
- Box 9: 5000
- Box 10: 300
- Box 11: 4300
- Box 12: 90
- Box 13: 3000
- Box 14: 500
- Box 15: 2900
- Box 16: 4300
- Box 17: 3000
- Box 18: T

Bottom Row (12 boxes):

- Box 1: 370
- Box 2: 5000
- Box 3: 2300
- Box 4: 2300
- Box 5: 170
- Box 6: 5000
- Box 7: 2000
- Box 8: 3700
- Box 9: 300
- Box 10: 2900
- Box 11: T
- Box 12: 200
- Box 13: 430
- Box 14: 500

Round 196 to the nearest hundred $\rightarrow$ **T**

Round 432 to the nearest ten $\rightarrow$ **L**

Round 3,701 to the nearest hundred $\rightarrow$ **H**

Round 4,543 to the nearest thousand → **A**

Round 89 to the nearest ten $\rightarrow$ **D**

Round 369 to the nearest ten $\rightarrow$ **C**

Round 261 to the nearest hundred $\rightarrow$

Round 4,330 to the nearest hundred → **N**

Round 3,009 to the nearest thousand →

Round 19 to the nearest ten $\rightarrow$ **V**

Round 498 to the nearest hundred → **E**

Round 2,932 to the nearest hundred $\rightarrow$ **S**

Round 1,630 to the nearest thousand → **W**

Round 2,347 to the nearest hundred $\rightarrow$ **R**

Round 169 to the nearest ten $\rightarrow$ **Y**

Scratch space:

CLUE 2 Addition

We need to add up all the map pieces. Let us count how many we have.

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

T								T							T		
5810	3699	4614	7756	5230	8602	3009	5810	9238	7283	6673	4614	3857	6344	8602	5810	4614	2634
		T		T								T					
3857	8602	5810	3699	5810	3699	4614	8602	6344	3009	4614	8762	5810	3699	6790	6673	6581	

$1754 + 4056 = \boxed{} \rightarrow \boxed{T}$

$4825 + 3777 = \boxed{} \rightarrow \boxed{I}$

$1305 + 2394 = \boxed{} \rightarrow \boxed{H}$

$2904 + 2326 = \boxed{} \rightarrow \boxed{U}$

$1070 + 1564 = \boxed{} \rightarrow \boxed{S}$

$2003 + 2611 = \boxed{} \rightarrow \boxed{E}$

$1851 + 2006 = \boxed{} \rightarrow \boxed{W}$

$5235 + 2521 = \boxed{} \rightarrow \boxed{G}$

$2203 + 4378 = \boxed{} \rightarrow \boxed{D}$

$5663 + 3575 = \boxed{} \rightarrow \boxed{Y}$

$1970 + 4374 = \boxed{} \rightarrow \boxed{R}$

$4929 + 3833 = \boxed{} \rightarrow \boxed{F}$

$2106 + 903 = \boxed{} \rightarrow \boxed{L}$

$4746 + 2044 = \boxed{} \rightarrow \boxed{A}$

$3836 + 2837 = \boxed{} \rightarrow \boxed{N}$

$3481 + 3802 = \boxed{} \rightarrow \boxed{O}$

Scratch space:

CLUE 3

Subtraction

The Raider dropped some juice boxes. We must find out how many are left.

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

Y																		
7159	8447	3094	5347	1591	7984	6252	5347	1591	2197	4401	4898	2402	4401	6447	5661	6303	4898	2402

1591	6585	2197	4401	4401	7984	7379	2197	8447	6585

$9368 - 2209 = \square \rightarrow \text{Y}$

$5181 - 283 = \square \rightarrow \text{T}$

$8164 - 180 = \square \rightarrow \text{N}$

$5485 - 3083 = \square \rightarrow \text{H}$

$5839 - 2745 = \square \rightarrow \text{U}$

$10832 - 4529 = \square \rightarrow \text{I}$

$5763 - 102 = \square \rightarrow \text{W}$

$11921 - 3474 = \square \rightarrow \text{O}$

$8563 - 2311 = \square \rightarrow \text{S}$

$6465 - 2064 = \square \rightarrow \text{E}$

$1744 - 153 = \square \rightarrow \text{A}$

$6440 - 1093 = \square \rightarrow \text{C}$

$3450 - 1253 = \square \rightarrow \text{R}$

$9430 - 2983 = \square \rightarrow \text{M}$

$8936 - 1557 = \square \rightarrow \text{F}$

$8771 - 2186 = \square \rightarrow \text{G}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

Look at the rows of muddy footprints. We can multiply to count them fast.

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

B																			
96	15	28	88	110	36	35	49	15	120	132	15	35	110	100	120	88	48	15	48
28	110	132	36	48	22	36	35	49	15										

$12 \times 8 = \square \rightarrow \text{B}$

$11 \times 10 = \square \rightarrow \text{N}$

$2 \times 11 = \square \rightarrow \text{C}$

$12 \times 3 = \square \rightarrow \text{H}$

$7 \times 7 = \square \rightarrow \text{I}$

$10 \times 10 = \square \rightarrow \text{D}$

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

$6 \times 8 = \square \rightarrow \text{E}$

$8 \times 11 = \square \rightarrow \text{W}$

$7 \times 4 = \square \rightarrow \text{O}$

$12 \times 11 = \square \rightarrow \text{T}$

$10 \times 12 = \square \rightarrow \text{S}$

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

Scratch space:

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

We want to share our sweet berries evenly. Let us divide them up.

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:

$63 \div 7 = \boxed{}$

$24 \div 6 = \boxed{}$

$24 \div 8 = \boxed{}$

$110 \div 10 = \boxed{}$

$88 \div 11 = \boxed{}$

$36 \div 3 = \boxed{}$

$20 \div 4 = \boxed{}$

$12 \div 6 = \boxed{}$

$5 \div 5 = \boxed{}$

$28 \div 4 = \boxed{}$

$54 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sneaked through the hollow log, then spilled some sweet berry juice.
2. The villain slid down the muddy zipline, then spilled some sweet berry juice.
3. The villain scrambled over the wooden fence, then left muddy footprints on the deck.
4. The villain crept across the swinging bridge, then dropped a shiny club coin.
5. The villain scrambled over the wooden fence, then dropped a shiny club coin.
6. The villain slid down the muddy zipline, then tipped over the scout bucket.
7. The villain crept across the swinging bridge, then spilled some sweet berry juice.
8. The villain climbed up the big rope ladder, then lost a secret map sheet.
9. The villain sneaked through the hollow log, then lost a secret map sheet.
10. The villain crept across the swinging bridge, then left muddy footprints on the deck.
11. The villain sneaked through the hollow log, then dropped a shiny club coin.
12. The villain slid down the muddy zipline, then lost a secret map sheet.

Answer Key

The Treehouse Raider

Culprit: Zoe

crown badge · chalk · left handed · neat brown hair · scared of frogs

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT CARRY A WHISTLE"

Round 196 to the nearest hundred = 200 (T) · Round 432 to the nearest ten = 430 (L) · Round 3,701 to the nearest hundred = 3700 (H) · Round 4,543 to the nearest thousand = 5000 (A) · Round 89 to the nearest ten = 90 (D) · Round 369 to the nearest ten = 370 (C) · Round 261 to the nearest hundred = 300 (I) · Round 4,330 to the nearest hundred = 4300 (N) · Round 3,009 to the nearest thousand = 3000 (O) · Round 19 to the nearest ten = 20 (V) · Round 498 to the nearest hundred = 500 (E) · Round 2,932 to the nearest hundred = 2900 (S) · Round 1,630 to the nearest thousand = 2000 (W) · Round 2,347 to the nearest hundred = 2300 (R) · Round 169 to the nearest ten = 170 (Y)

Clue 2 (Addition): "THE GUILTY ONE WRITES WITH THEIR LEFT HAND"

$1754 + 4056 = 5810$ (T) · $4825 + 3777 = 8602$ (I) · $1305 + 2394 = 3699$ (H) · $2904 + 2326 = 5230$ (U) · $1070 + 1564 = 2634$ (S) · $2003 + 2611 = 4614$ (E) · $1851 + 2006 = 3857$ (W) · $5235 + 2521 = 7756$ (G) · $2203 + 4378 = 6581$ (D) · $5663 + 3575 = 9238$ (Y) · $1970 + 4374 = 6344$ (R) · $4929 + 3833 = 8762$ (F) · $2106 + 903 = 3009$ (L) · $4746 + 2044 = 6790$ (A) · $3836 + 2837 = 6673$ (N) · $3481 + 3802 = 7283$ (O)

Clue 3 (Subtraction): "YOU CAN SCARE THEM WITH A GREEN FROG"

$9368 - 2209 = 7159$ (Y) · $5181 - 283 = 4898$ (T) · $8164 - 180 = 7984$ (N) · $5485 - 3083 = 2402$ (H) · $5839 - 2745 = 3094$ (U) · $10832 - 4529 = 6303$ (I) · $5763 - 102 = 5661$ (W) · $11921 - 3474 = 8447$ (O) · $8563 - 2311 = 6252$ (S) · $6465 - 2064 = 4401$ (E) · $1744 - 153 = 1591$ (A) · $6440 - 1093 = 5347$ (C) · $3450 - 1253 = 2197$ (R) · $9430 - 2983 = 6447$ (M) · $8936 - 1557 = 7379$ (F) · $8771 - 2186 = 6585$ (G)

Clue 4 (Multiplication facts (1-12)): "BROWN HAIR STRANDS WERE ON THE CHAIR"

$12 \times 8 = 96$ (B) · $11 \times 10 = 110$ (N) · $2 \times 11 = 22$ (C) · $12 \times 3 = 36$ (H) · $7 \times 7 = 49$ (I) · $10 \times 10 = 100$ (D) · $7 \times 5 = 35$ (A) · $6 \times 8 = 48$ (E) · $8 \times 11 = 88$ (W) · $7 \times 4 = 28$ (O) · $12 \times 11 = 132$ (T) · $10 \times 12 = 120$ (S) · $5 \times 3 = 15$ (R)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Zoe

$63 \div 7 = 9$ · $24 \div 6 = 4$ · $24 \div 8 = 3$ · $110 \div 10 = 11$ · $88 \div 11 = 8$ · $36 \div 3 = 12$ · $20 \div 4 = 5$ · $12 \div 6 = 2$ · $5 \div 5 = 1$ · $28 \div 4 = 7$ · $54 \div 9 = 6$