



The Secret Island Mystery

Grade 2 math · Skip counting, Addition, Subtraction, Multiplication, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

The Golden Coconut is gone from the Treehouse Club! The Pineapple Bandit left a trail of clues deep in the jungle. We need to crack the codes and find 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 Pineapple Bandit is _____

Possible suspects

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

NAME	SPECIAL GEAR	MAP SKILLS	DOMINANT HAND	HEADWEAR OR HAIR	FEAR
Dan	bubble shield	swamp jumping	right handed	green bandana	silly jokes
Dot	laser flashlight	cave diving	left handed	blue cap	loud whistles
Lily	bubble shield	river rafting	right handed	red hair	silly jokes
Amy	sticky boots	jungle climbing	left handed	green bandana	bright lights
Sam	sticky boots	bridge crossing	right handed	green bandana	loud whistles
Pip	laser flashlight	river rafting	right handed	blue cap	loud whistles
Ben	laser flashlight	jungle climbing	right handed	green bandana	silly jokes
Mia	grappling hook	swamp jumping	right handed	red hair	loud whistles
Ned	bubble shield	bridge crossing	left handed	red hair	bright lights
Eli	grappling hook	bridge crossing	right handed	red hair	bright lights
Rex	sticky boots	bridge crossing	right handed	green bandana	silly jokes
Toby	bubble shield	cave diving	right handed	green bandana	silly jokes
Joy	laser flashlight	river rafting	left handed	blue cap	silly jokes
Ella	super glider	swamp jumping	right handed	green bandana	silly jokes
Finn	sticky boots	bridge crossing	right handed	blue cap	loud whistles
Jake	laser flashlight	swamp jumping	right handed	red hair	silly jokes
Leo	laser flashlight	jungle climbing	right handed	green bandana	loud whistles
Luke	super glider	swamp jumping	left handed	blue cap	loud whistles
Gus	grappling hook	swamp jumping	right handed	blue cap	loud whistles
Zoe	super glider	cave diving	right handed	red hair	loud whistles
Abby	grappling hook	river rafting	left handed	green bandana	silly jokes

CLUE 1

Diagram illustrating the arrangement of boxes and numbers:

Top row (15 boxes):

- Box 1: T
- Box 2: 120
- Box 3: 25
- Box 4: 9
- Box 5: 20
- Box 6: 140
- Box 7: 33
- Box 8: 45
- Box 9: 70
- Box 10: 120
- Box 11: T
- Box 12: 45
- Box 13: 90
- Box 14: 9
- Box 15: 35

Bottom row (8 boxes):

- Box 1: 33
- Box 2: 90
- Box 3: 120
- Box 4: 55
- Box 5: 140
- Box 6: 110
- Box 7: 9
- Box 8: 45
- Box 9: 70
- Box 10: 110
- Box 11: 9

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **T**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 →

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **B**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 → **V**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 →

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **C**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **E**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **S**

Scratch space:

CLUE 2 Addition

We find a stash of map pieces. We add them together to see the whole map.

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.

Row 1 (Top):

- Box 1: T (shaded orange)
- Box 2: 98
- Box 3: 65
- Box 4: 78
- Box 5: 90
- Box 6: 79
- Box 7: 64
- Box 8: 65
- Box 9: T (shaded orange)
- Box 10: 65
- Box 11: 35
- Box 12: 81
- Box 13: 82
- Box 14: 91
- Box 15: 90
- Box 16: 79
- Box 17: 81
- Box 18: T (shaded orange)
- Box 19: 98
- Box 20: 38
- Box 21: 35
- Box 22: 73

Row 2 (Bottom):

- Box 1: 25
- Box 2: 81
- Box 3: T (shaded orange)
- Box 4: 98
- Box 5: 65
- Box 6: 78
- Box 7: 38
- Box 8: 35
- Box 9: 93
- Box 10: 93

$35 + 63 = \boxed{} \rightarrow \boxed{\text{T}}$

$26 + 12 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$$26 + 39 = \boxed{} \rightarrow \boxed{\text{H}}$$

$29 + 62 = \boxed{} \rightarrow \boxed{\text{P}}$

$27 + 46 = \boxed{} \rightarrow \boxed{\text{S}}$

$20 + 44 = \boxed{} \rightarrow \boxed{\text{G}}$

$$28 + 51 = \boxed{} \rightarrow \boxed{\text{I}}$$

$35 + 46 = \boxed{} \rightarrow \boxed{\text{N}}$

$60 + 30 = \boxed{} \rightarrow \boxed{\text{R}}$

$$7 + 18 = \boxed{} \rightarrow \boxed{0}$$

$41 + 37 = \boxed{} \rightarrow \boxed{\text{E}}$

$50 + 32 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$22 + 13 = \square \rightarrow \boxed{\mathbf{A}}$

$39 + 54 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 3

Subtraction

The bandit dropped some gold coins. We take away the fake coins to count the real ones.

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

T									T										T	
87	63	56	43	26	58	51	27	87	61	26	32	86	63	56	51	26	87	26		

64	34	67	56

$107 - 20 = \square \rightarrow \boxed{\text{T}}$

$45 - 19 = \square \rightarrow \boxed{\text{A}}$

$83 - 19 = \square \rightarrow \boxed{\text{J}}$

$49 - 15 = \square \rightarrow \boxed{\text{O}}$

$91 - 33 = \square \rightarrow \boxed{\text{N}}$

$90 - 23 = \square \rightarrow \boxed{\text{K}}$

$80 - 37 = \square \rightarrow \boxed{\text{B}}$

$98 - 12 = \square \rightarrow \boxed{\text{G}}$

$98 - 37 = \square \rightarrow \boxed{\text{L}}$

$52 - 25 = \square \rightarrow \boxed{\text{I}}$

$103 - 40 = \square \rightarrow \boxed{\text{H}}$

$61 - 5 = \square \rightarrow \boxed{\text{E}}$

$54 - 3 = \square \rightarrow \boxed{\text{D}}$

$61 - 29 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

We see boxes of sweet pineapples in rows. We multiply the rows to count the fruit.

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

A							A			A		A			A				
72	77	64	56	56	121	14	72	121	110	72	121	72	12	121	72	77	77	56	110

		A					
3	121	72	120	16	3	64	121

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

$12 \times 1 = \square \rightarrow \boxed{\text{S}}$

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

$2 \times 8 = \square \rightarrow \boxed{\text{H}}$

$7 \times 2 = \square \rightarrow \boxed{\text{B}}$

$7 \times 11 = \square \rightarrow \boxed{\text{G}}$

$1 \times 3 = \square \rightarrow \boxed{\text{O}}$

$10 \times 12 = \square \rightarrow \boxed{\text{T}}$

$11 \times 10 = \square \rightarrow \boxed{\text{D}}$

$8 \times 7 = \square \rightarrow \boxed{\text{E}}$

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

Scratch space:

CLUE 5**Missing addends - the last clue**

We need ten keys to unlock the chest. We have some keys and must find the rest.

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:

$3 + \underline{\quad} = 13$

$2 + \underline{\quad} = 6$

$1 + \underline{\quad} = 8$

$6 + \underline{\quad} = 17$

$4 + \underline{\quad} = 10$

$9 + \underline{\quad} = 17$

$8 + \underline{\quad} = 13$

$7 + \underline{\quad} = 10$

$1 + \underline{\quad} = 10$

$3 + \underline{\quad} = 15$

$10 + \underline{\quad} = 11$

Step 2 - cross out the sentence with each answer:

1. The villain zoomed off the cliff, then crossed the shaky rope bridge.
2. The villain blocked the mud balls, then leaped over the muddy swamp.
3. The villain zoomed off the cliff, then swam into the dark cavern.
4. The villain walked up a steep wall, then crossed the shaky rope bridge.
5. The villain shined a bright light, then leaped over the muddy swamp.
6. The villain swung on a vine, then leaped over the muddy swamp.
7. The villain zoomed off the cliff, then leaped over the muddy swamp.
8. The villain walked up a steep wall, then splashed down the rushing river.
9. The villain blocked the mud balls, then splashed down the rushing river.
10. The villain shined a bright light, then climbed up the tall palm tree.
11. The villain blocked the mud balls, then crossed the shaky rope bridge.
12. The villain zoomed off the cliff, then climbed up the tall palm tree.

Answer Key

The Secret Island Mystery

Culprit: Dan

bubble shield · swamp jumping · right handed · green bandana · silly jokes

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE BANDIT DOES NOT CAVE DIVE"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (V) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (C) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (S)

Clue 2 (Addition): "THE RIGHT HANDPRINT WAS ON THE WALL"

$35 + 63 = 98$ (T) · $26 + 12 = 38$ (W) · $26 + 39 = 65$ (H) · $29 + 62 = 91$ (P) · $27 + 46 = 73$ (S) · $20 + 44 = 64$ (G) · $28 + 51 = 79$ (I) · $35 + 46 = 81$ (N) · $60 + 30 = 90$ (R) · $7 + 18 = 25$ (O) · $41 + 37 = 78$ (E) · $50 + 32 = 82$ (D) · $22 + 13 = 35$ (A) · $39 + 54 = 93$ (L)

Clue 3 (Subtraction): "THE BANDIT LAUGHED AT A JOKE"

$107 - 20 = 87$ (T) · $45 - 19 = 26$ (A) · $83 - 19 = 64$ (J) · $49 - 15 = 34$ (O) · $91 - 33 = 58$ (N) · $90 - 23 = 67$ (K) · $80 - 37 = 43$ (B) · $98 - 12 = 86$ (G) · $98 - 37 = 61$ (L) · $52 - 25 = 27$ (I) · $103 - 40 = 63$ (H) · $61 - 5 = 56$ (E) · $54 - 3 = 51$ (D) · $61 - 29 = 32$ (U)

Clue 4 (Multiplication facts (1-12)): "A GREEN BANDANA SNAGGED ON A THORN"

$12 \times 6 = 72$ (A) · $12 \times 1 = 12$ (S) · $11 \times 11 = 121$ (N) · $2 \times 8 = 16$ (H) · $7 \times 2 = 14$ (B) · $7 \times 11 = 77$ (G) · $1 \times 3 = 3$ (O) · $10 \times 12 = 120$ (T) · $11 \times 10 = 110$ (D) · $8 \times 7 = 56$ (E) · $8 \times 8 = 64$ (R)

Clue 5 (Missing addends): surviving statement is box 2 → Dan

$3 + \underline{\quad} = 13 = 10$ · $2 + \underline{\quad} = 6 = 4$ · $1 + \underline{\quad} = 8 = 7$ · $6 + \underline{\quad} = 17 = 11$ · $4 + \underline{\quad} = 10 = 6$ · $9 + \underline{\quad} = 17 = 8$ · $8 + \underline{\quad} = 13 = 5$ · $7 + \underline{\quad} = 10 = 3$ · $1 + \underline{\quad} = 10 = 9$ · $3 + \underline{\quad} = 15 = 12$ · $10 + \underline{\quad} = 11 = 1$