



The Mystery of Golden Lake

Grade 2 math · Place value, Subtraction, Addition, Skip counting, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Someone snuck into the hatchery at night and scooped up the prize winning rainbow trout! Leave no boat unturned as you solve the clues and catch the rogue angler.

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 Lake Bandit is _____

Possible suspects

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

NAME	FISHING STYLE	GEAR CHOICE	CASTING HAND	HAIR STYLE	FOIL WEAKNESS
Jeremy Wade	Ice Hole Jigging	Electric Motor	Right Handed Cast	Dark Braided Hair	Slippery Boots
Reef Rita	Deep Sea Chugging	Sonar Radar	Left Handed Cast	Salty Gray Beard	Snagged Hooks
Sailor Bob	Ice Hole Jigging	Graphite Rod	Left Handed Cast	Dark Braided Hair	Snagged Hooks
River Reed	Deep Sea Chugging	Braided Line	Left Handed Cast	Dark Braided Hair	Slippery Boots
Captain Ahab	Ice Hole Jigging	Electric Motor	Left Handed Cast	Dark Braided Hair	Snagged Hooks
Gill Guy	Bottom Trolling	Heavy Net	Left Handed Cast	Dark Braided Hair	Tangled Lines
Hank Parker	Deep Sea Chugging	Braided Line	Right Handed Cast	Salty Gray Beard	Tangled Lines
Jimmy Houston	Bottom Trolling	Braided Line	Left Handed Cast	Dark Braided Hair	Slippery Boots
Skipper Jack	Fly Casting	Braided Line	Left Handed Cast	Dark Braided Hair	Slippery Boots
Marina Mae	Ice Hole Jigging	Heavy Net	Left Handed Cast	Sun Bleached Blonde	Slippery Boots
Fisher Finn	Ice Hole Jigging	Heavy Net	Right Handed Cast	Salty Gray Beard	Slippery Boots
Lake Louise	Bottom Trolling	Heavy Net	Left Handed Cast	Sun Bleached Blonde	Snagged Hooks
Rick Clunn	Bottom Trolling	Sonar Radar	Right Handed Cast	Sun Bleached Blonde	Slippery Boots
Stream Sam	Bottom Trolling	Graphite Rod	Left Handed Cast	Dark Braided Hair	Slippery Boots
Pier Pete	Bottom Trolling	Electric Motor	Right Handed Cast	Dark Braided Hair	Snagged Hooks
Kevin VanDam	Ice Hole Jigging	Sonar Radar	Left Handed Cast	Dark Braided Hair	Snagged Hooks
Bill Dance	Bottom Trolling	Sonar Radar	Left Handed Cast	Dark Braided Hair	Snagged Hooks
Bay Billy	Deep Sea Chugging	Sonar Radar	Right Handed Cast	Sun Bleached Blonde	Slippery Boots
Harbor Hank	Ice Hole Jigging	Heavy Net	Left Handed Cast	Dark Braided Hair	Tangled Lines
Angler Amy	Deep Sea Chugging	Heavy Net	Left Handed Cast	Sun Bleached Blonde	Slippery Boots
Roland Martin	Deep Sea Chugging	Heavy Net	Left Handed Cast	Dark Braided Hair	Slippery Boots

CLUE 1 Place value

The dock master checked the three digit tag number printed on the boat motor.

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

T									T							T
67	94	99	29	77	29	69	99	96	67	33	52	99	29	31	52	67

								T						
77	29	99	11	27	73	11	69	94	87	67	99	73	52	33

What number has 6 tens and 7 ones? →

T

What number has 9 tens and 6 ones? →

C

What number has 2 tens and 9 ones? →

S

What number has 9 tens and 9 ones? →

E

What number has 5 tens and 2 ones? →

O

What number has 6 tens and 9 ones? →

P

What number has 7 tens and 7 ones? →

U

What number has 3 tens and 1 one? →

N

What number has 9 tens and 4 ones? →

H

What number has 3 tens and 3 ones? →

D

What number has 8 tens and 7 ones? →

I

What number has 1 ten and 1 one? →

A

What number has 2 tens and 7 ones? →

G

What number has 7 tens and 3 ones? →

R

Scratch space:

CLUE 2

Subtraction

Detective Sam measured how many minnows were missing from the bait bucket.

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

T					T												T
44	80	35	63	54	44	30	35	56	56	56	76	63	76	41	35	59	44

									T
80	76	30	26	35	26	22	76	56	44

$59 - 15 = \square \rightarrow \boxed{\text{T}}$

$115 - 35 = \square \rightarrow \boxed{\text{H}}$

$43 - 2 = \square \rightarrow \boxed{\text{L}}$

$34 - 8 = \square \rightarrow \boxed{\text{D}}$

$86 - 30 = \square \rightarrow \boxed{\text{S}}$

$100 - 24 = \square \rightarrow \boxed{\text{A}}$

$86 - 32 = \square \rightarrow \boxed{\text{I}}$

$43 - 8 = \square \rightarrow \boxed{\text{E}}$

$51 - 29 = \square \rightarrow \boxed{\text{C}}$

$74 - 15 = \square \rightarrow \boxed{\text{F}}$

$74 - 11 = \square \rightarrow \boxed{\text{W}}$

$54 - 24 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3
Addition

The team counted up all the landed bass to narrow down the clues.

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

T																	
44	40	38	93	85	25	77	54	42	67	23	42	64	67	38	92	46	69

											T	
67	77	25	74	74	38	49	69	46	85	85	44	67

$14 + 30 = \square \rightarrow \text{**T**}$

$31 + 15 = \square \rightarrow \text{**B**}$

$55 + 37 = \square \rightarrow \text{**D**}$

$25 + 42 = \square \rightarrow \text{**S**}$

$11 + 14 = \square \rightarrow \text{**I**}$

$27 + 47 = \square \rightarrow \text{**P**}$

$25 + 17 = \square \rightarrow \text{**A**}$

$45 + 24 = \square \rightarrow \text{**Y**}$

$12 + 28 = \square \rightarrow \text{**H**}$

$15 + 23 = \square \rightarrow \text{**E**}$

$30 + 19 = \square \rightarrow \text{**R**}$

$52 + 25 = \square \rightarrow \text{**L**}$

$9 + 14 = \square \rightarrow \text{**C**}$

$34 + 30 = \square \rightarrow \text{**U**}$

$21 + 33 = \square \rightarrow \text{**W**}$

$42 + 51 = \square \rightarrow \text{**F**}$

$35 + 50 = \square \rightarrow \text{**O**}$

Scratch space:

CLUE 4 Skip counting

The harbor ranger counted buoy markers along the shore in equal jumps.

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

H							H											
6	80	70	25	39	24	10	6	42	39	80	25	15	80	27	35	80	25	16

80	24	35	26	25	80	70	35	42	35	

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **K**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **N**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **B**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **S**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **E**

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **W**

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

Scratch space:

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

Sam calculated how many lures remained to uncover the hidden message.

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:

$3 + \underline{\quad} = 8$

$6 + \underline{\quad} = 7$

$10 + \underline{\quad} = 20$

$9 + \underline{\quad} = 16$

$8 + \underline{\quad} = 11$

$6 + \underline{\quad} = 18$

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

$1 + \underline{\quad} = 3$

$10 + \underline{\quad} = 16$

$2 + \underline{\quad} = 11$

$7 + \underline{\quad} = 18$

Step 2 - cross out the sentence with each answer:

1. The villain trolls deep along the bottom, then snaps a braided line.
2. The villain trolls deep along the bottom, then scans with sonar radar.
3. The villain jigs through the lake ice, then snaps a braided line.
4. The villain trolls deep along the bottom, then swings a graphite rod.
5. The villain chugs a big lure offshore, then snaps a braided line.
6. The villain casts a heavy fly line, then swings a graphite rod.
7. The villain jigs through the lake ice, then scans with sonar radar.
8. The villain casts a heavy fly line, then snaps a braided line.
9. The villain trolls deep along the bottom, then steers an electric motor.
10. The villain chugs a big lure offshore, then hauls a heavy net.
11. The villain jigs through the lake ice, then steers an electric motor.
12. The villain pops a noisy surface plug, then steers an electric motor.

Answer Key

The Mystery of Golden Lake

Culprit: Skipper Jack

Fly Casting · Braided Line · Left Handed Cast · Dark Braided Hair · Slippery Boots

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SUSPECT DOES NOT USE A GRAPHITE ROD"

What number has 6 tens and 7 ones? = 67 (T) · What number has 9 tens and 6 ones? = 96 (C) · What number has 2 tens and 9 ones? = 29 (S) · What number has 9 tens and 9 ones? = 99 (E) · What number has 5 tens and 2 ones? = 52 (O) · What number has 6 tens and 9 ones? = 69 (P) · What number has 7 tens and 7 ones? = 77 (U) · What number has 3 tens and 1 one? = 31 (N) · What number has 9 tens and 4 ones? = 94 (H) · What number has 3 tens and 3 ones? = 33 (D) · What number has 8 tens and 7 ones? = 87 (I) · What number has 1 ten and 1 one? = 11 (A) · What number has 2 tens and 7 ones? = 27 (G) · What number has 7 tens and 3 ones? = 73 (R)

Clue 2 (Subtraction): "THE WITNESS SAW A LEFT HANDED CAST"

59 - 15 = 44 (T) · 115 - 35 = 80 (H) · 43 - 2 = 41 (L) · 34 - 8 = 26 (D) · 86 - 30 = 56 (S) · 100 - 24 = 76 (A) · 86 - 32 = 54 (I) · 43 - 8 = 35 (E) · 51 - 29 = 22 (C) · 74 - 15 = 59 (F) · 74 - 11 = 63 (W) · 54 - 24 = 30 (N)

Clue 3 (Addition): "THE FOIL WAS CAUSED BY SLIPPERY BOOTS"

14 + 30 = 44 (T) · 31 + 15 = 46 (B) · 55 + 37 = 92 (D) · 25 + 42 = 67 (S) · 11 + 14 = 25 (I) · 27 + 47 = 74 (P) · 25 + 17 = 42 (A) · 45 + 24 = 69 (Y) · 12 + 28 = 40 (H) · 15 + 23 = 38 (E) · 30 + 19 = 49 (R) · 52 + 25 = 77 (L) · 9 + 14 = 23 (C) · 34 + 30 = 64 (U) · 21 + 33 = 54 (W) · 42 + 51 = 93 (F) · 35 + 50 = 85 (O)

Clue 4 (Skip counting): "HAIR ON THE OAR WAS DARK AND BRAIDED"

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (K) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (B) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (E) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (I)

Clue 5 (Missing addends): surviving statement is box 8 → Skipper Jack

3 + __ = 8 = 5 · 6 + __ = 7 = 1 · 10 + __ = 20 = 10 · 9 + __ = 16 = 7 · 8 + __ = 11 = 3 · 6 + __ = 18 = 12 · 2 + __ = 6 = 4 · 1 + __ = 3 = 2 · 10 + __ = 16 = 6 · 2 + __ = 11 = 9 · 7 + __ = 18 = 11