



The Mystery of the Golden Trophy Lure

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

Detective: _____ Date: _____

The annual Lake Shadowfin Bass Derby was about to start when someone snatched the priceless Golden Trophy Lure right off the judge's table! Without the trophy lure, the tournament cannot begin. Detective Maya arrived at the marina to inspect the docks and narrow down the suspect list before the culprit reels away.

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 tackle thief is _____

Possible suspects

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

NAME	FAVORITE BAIT	FISHING ROD TYPE	REEL HAND	HAT STYLE	UNLUCKY SNAG
Gill Waters	Plastic Worms	Telescopic Rod	Right Handed Reel	Green Bucket Hat	Overhanging Willow
Rex Tackle	Corn Kernels	Graphite Rod	Right Handed Reel	Green Bucket Hat	Sunken Log
Bass Brody	Nightcrawlers	Bamboo Pole	Left Handed Reel	Blue Sun Visor	Sunken Log
Trout Trevor	Shiny Spoons	Fly Fishing Rod	Left Handed Reel	Blue Sun Visor	Lakeside Reeds
Wade Rivers	Corn Kernels	Telescopic Rod	Left Handed Reel	Red Cap	Lakeside Reeds
Hooker Hayes	Nightcrawlers	Fiberglass Rod	Left Handed Reel	Green Bucket Hat	Lakeside Reeds
Pearl Diver	Nightcrawlers	Fiberglass Rod	Left Handed Reel	Blue Sun Visor	Lakeside Reeds
Caster Vance	Plastic Worms	Fiberglass Rod	Left Handed Reel	Blue Sun Visor	Lakeside Reeds
Bait Bailey	Shiny Spoons	Telescopic Rod	Left Handed Reel	Blue Sun Visor	Lakeside Reeds
Finley Hook	Plastic Worms	Fiberglass Rod	Right Handed Reel	Green Bucket Hat	Lakeside Reeds
Sandy Shore	Shiny Spoons	Fly Fishing Rod	Right Handed Reel	Green Bucket Hat	Sunken Log
Hunter Bobber	Minnows	Graphite Rod	Right Handed Reel	Blue Sun Visor	Lakeside Reeds
Ray Anchor	Nightcrawlers	Fly Fishing Rod	Left Handed Reel	Blue Sun Visor	Lakeside Reeds
Marina Pike	Corn Kernels	Fly Fishing Rod	Left Handed Reel	Green Bucket Hat	Sunken Log
Trout Tanner	Corn Kernels	Graphite Rod	Left Handed Reel	Blue Sun Visor	Lakeside Reeds
Fisher King	Shiny Spoons	Bamboo Pole	Right Handed Reel	Blue Sun Visor	Overhanging Willow
Pike Parker	Corn Kernels	Fly Fishing Rod	Left Handed Reel	Blue Sun Visor	Overhanging Willow
Lake Skylar	Plastic Worms	Fly Fishing Rod	Right Handed Reel	Blue Sun Visor	Lakeside Reeds
Sunny Cast	Minnows	Bamboo Pole	Right Handed Reel	Green Bucket Hat	Sunken Log
Reed Marsh	Plastic Worms	Graphite Rod	Right Handed Reel	Red Cap	Lakeside Reeds
Salmon Sam	Nightcrawlers	Graphite Rod	Left Handed Reel	Green Bucket Hat	Sunken Log

CLUE 1

So

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 16 boxes, with the 2nd and 12th boxes highlighted in orange and labeled 'T'. The bottom row contains 13 boxes. Below each box is a number.

Box	Top Row	Bottom Row
1	2975	9830
2	7752	7039
3	5626	5474
4	2975	5626
5	7752	4735
6	7039	4424
7	5626	3359
8	9830	3293
9	7686	3639
10	7039	3639
11	7686	4735
12	8157	7698
13	7698	7686
14	2975	
15	5405	
16	3639	
17	5626	
18	3293	

$1647 + 1328 = \boxed{} \rightarrow \boxed{\text{T}}$

$2877 + 4809 = \boxed{} \rightarrow \boxed{\text{D}}$

$3205 + 2421 = \boxed{} \rightarrow \boxed{\text{E}}$

$$1151 + 2208 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$4211 + 5619 = \boxed{} \rightarrow \boxed{\text{F}}$$

$4409 + 2630 = \boxed{} \rightarrow \boxed{}$

$$1920 + 2815 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$3385 + 4367 = \boxed{} \rightarrow \boxed{\text{H}}$$

$1677 + 2747 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$$3421 + 4277 = \boxed{} \rightarrow \boxed{0}$$

$$2121 + 1172 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$2198 + 3207 = \boxed{} \rightarrow \boxed{\text{U}}$$

$3625 + 4532 = \boxed{} \rightarrow \boxed{\text{N}}$

$2738 + 2736 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$$2187 + 1452 = \boxed{} \rightarrow \boxed{\text{S}}$$

Scratch space:

CLUE 2

Rounding

The electronic fish finder screen rounds the weight of the catch to the nearest ten.

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

W									W					
370	4300	30	20	3700	3000	3000	3000	5000	370	5000	70	3700	2300	30
1300	5000	20	9000	3700	9000	290	3700	3700	70	4300	20	1700	3000	3700

Round 368 to the nearest ten → **W**

Round 1,728 to the nearest hundred → **U**

Round 294 to the nearest ten → **R**

Round 3,665 to the nearest hundred → **E**

Round 5,496 to the nearest thousand → **A**

Round 1,332 to the nearest hundred → **H**

Round 66 to the nearest ten → **L**

Round 2,871 to the nearest thousand → **S**

Round 30 to the nearest ten → **T**

Round 20 to the nearest ten → **N**

Round 4,339 to the nearest hundred → **I**

Round 2,325 to the nearest hundred → **F**

Round 9,271 to the nearest thousand → **D**

Scratch space:

CLUE 3

Subtraction

Detective Maya counts how many lures remain in the tackle box after the theft.

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

T																	
5136	5350	5625	3552	1490	3082	5625	3205	8434	3842	1100	5350	5136	1490	3082			

3552	8434	1452	5625	7264	1490	7249	5625	7268	5625	5625	7249	7264

$9671 - 4535 = \square \rightarrow \boxed{\text{T}}$

$4980 - 3490 = \square \rightarrow \boxed{\text{I}}$

$10078 - 1644 = \square \rightarrow \boxed{\text{A}}$

$11229 - 3980 = \square \rightarrow \boxed{\text{D}}$

$1803 - 703 = \square \rightarrow \boxed{\text{G}}$

$7665 - 3823 = \square \rightarrow \boxed{\text{U}}$

$4625 - 1420 = \square \rightarrow \boxed{\text{C}}$

$9229 - 3879 = \square \rightarrow \boxed{\text{H}}$

$7336 - 4254 = \square \rightarrow \boxed{\text{N}}$

$10611 - 3347 = \square \rightarrow \boxed{\text{S}}$

$10321 - 4696 = \square \rightarrow \boxed{\text{E}}$

$9870 - 2602 = \square \rightarrow \boxed{\text{R}}$

$6281 - 2729 = \square \rightarrow \boxed{\text{L}}$

$1720 - 268 = \square \rightarrow \boxed{\text{K}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The dock master counts equal rows of fishing rods lined up along the pier.

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

A																	
60	33	27	120	16	88	120	25	3	55	88	81	9	22	60	88		

							A										
100	81	120	25	90	25	16	60	9	9	16	16	27					

$10 \times 6 =$

→ A

$8 \times 2 =$

→ E

$9 \times 9 =$

→ O

$3 \times 1 =$

→ V

$9 \times 3 =$

→ L

$5 \times 5 =$

→ N

$2 \times 11 =$

→ W

$11 \times 3 =$

→ B

$11 \times 5 =$

→ I

$12 \times 10 =$

→ U

$8 \times 11 =$

→ S

$10 \times 10 =$

→ F

$9 \times 1 =$

→ R

$9 \times 10 =$

→ D

Scratch space:

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

The young anglers split the recovered lead sinkers equally among their buckets.

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:

$33 \div 11 = \square$

$36 \div 4 = \square$

$24 \div 12 = \square$

$11 \div 1 = \square$

$64 \div 8 = \square$

$60 \div 12 = \square$

$60 \div 5 = \square$

$60 \div 10 = \square$

$7 \div 7 = \square$

$21 \div 3 = \square$

$10 \div 1 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain trolled with shiny spoons, then snapped a bamboo pole.
2. The villain chummed with corn kernels, then flexed a graphite rod.
3. The villain hooked with nightcrawlers, then waved a fly fishing rod.
4. The villain trolled with shiny spoons, then packed a telescopic rod.
5. The villain cast with minnows, then packed a telescopic rod.
6. The villain hooked with nightcrawlers, then packed a telescopic rod.
7. The villain baited with plastic worms, then packed a telescopic rod.
8. The villain hooked with nightcrawlers, then snapped a bamboo pole.
9. The villain trolled with shiny spoons, then waved a fly fishing rod.
10. The villain hooked with nightcrawlers, then flexed a graphite rod.
11. The villain baited with plastic worms, then flexed a graphite rod.
12. The villain cast with minnows, then waved a fly fishing rod.

Answer Key

The Mystery of the Golden Trophy Lure

Culprit: Bait Bailey

Shiny Spoons · Telescopic Rod · Left Handed Reel · Blue Sun Visor · Lakeside Reeds

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

Clue 1 (Addition): "THE THIEF DID NOT USE A FIBERGLASS ROD"

$1647 + 1328 = 2975$ (T) · $2877 + 4809 = 7686$ (D) · $3205 + 2421 = 5626$ (E) · $1151 + 2208 = 3359$ (L) · $4211 + 5619 = 9830$ (F) · $4409 + 2630 = 7039$ (I) · $1920 + 2815 = 4735$ (R) · $3385 + 4367 = 7752$ (H) · $1677 + 2747 = 4424$ (G) · $3421 + 4277 = 7698$ (O) · $2121 + 1172 = 3293$ (A) · $2198 + 3207 = 5405$ (U) · $3625 + 4532 = 8157$ (N) · $2738 + 2736 = 5474$ (B) · $2187 + 1452 = 3639$ (S)

Clue 2 (Rounding): "WITNESS SAW A LEFT HANDED REEL IN USE"

Round 368 to the nearest ten = 370 (W) · Round 1,728 to the nearest hundred = 1700 (U) · Round 294 to the nearest ten = 290 (R) · Round 3,665 to the nearest hundred = 3700 (E) · Round 5,496 to the nearest thousand = 5000 (A) · Round 1,332 to the nearest hundred = 1300 (H) · Round 66 to the nearest ten = 70 (L) · Round 2,871 to the nearest thousand = 3000 (S) · Round 30 to the nearest ten = 30 (T) · Round 20 to the nearest ten = 20 (N) · Round 4,339 to the nearest hundred = 4300 (I) · Round 2,325 to the nearest hundred = 2300 (F) · Round 9,271 to the nearest thousand = 9000 (D)

Clue 3 (Subtraction): "THE LINE CAUGHT IN LAKESIDE REEDS"

$9671 - 4535 = 5136$ (T) · $4980 - 3490 = 1490$ (I) · $10078 - 1644 = 8434$ (A) · $11229 - 3980 = 7249$ (D) · $1803 - 703 = 1100$ (G) · $7665 - 3823 = 3842$ (U) · $4625 - 1420 = 3205$ (C) · $9229 - 3879 = 5350$ (H) · $7336 - 4254 = 3082$ (N) · $10611 - 3347 = 7264$ (S) · $10321 - 4696 = 5625$ (E) · $9870 - 2602 = 7268$ (R) · $6281 - 2729 = 3552$ (L) · $1720 - 268 = 1452$ (K)

Clue 4 (Multiplication facts (1-12)): "A BLUE SUN VISOR WAS FOUND NEAR REEL"

$10 \times 6 = 60$ (A) · $8 \times 2 = 16$ (E) · $9 \times 9 = 81$ (O) · $3 \times 1 = 3$ (V) · $9 \times 3 = 27$ (L) · $5 \times 5 = 25$ (N) · $2 \times 11 = 22$ (W) · $11 \times 3 = 33$ (B) · $11 \times 5 = 55$ (I) · $12 \times 10 = 120$ (U) · $8 \times 11 = 88$ (S) · $10 \times 10 = 100$ (F) · $9 \times 1 = 9$ (R) · $9 \times 10 = 90$ (D)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Bait Bailey

$33 \div 11 = 3$ · $36 \div 4 = 9$ · $24 \div 12 = 2$ · $11 \div 1 = 11$ · $64 \div 8 = 8$ · $60 \div 12 = 5$ · $60 \div 5 = 12$ · $60 \div 10 = 6$ · $7 \div 7 = 1$ · $21 \div 3 = 7$ · $10 \div 1 = 10$