



Mystery of the Sunken Catnip Treasure

Grade 5 math · Rounding, Subtraction, Multiplication, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone swiped the Golden Catnip Medallion from Harbor Master Barnaby's cabin! Search the Whispering Atoll, crack the mathematical codes left at the crime scene, and track down the culprit.

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 Scallywag is _____

Possible suspects

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

NAME	SEA ABILITY	ENCHANTED GEAR	DOMINANT PAW	MANE COLOR	DISTRACTION ITEM
Salty Tail	Coral Shield	Pearl Shield	Right-Handed Paw	Deep Sea Blue Mane	Bright Laser Pointer
Splash Scurvy	Bubble Cannon	Anchor Blast	Right-Handed Paw	Deep Sea Blue Mane	Bright Laser Pointer
Starling Splash	Whirling Trident	Starfish Cloak	Right-Handed Paw	Aquamarine Mane	Squeaky Mouse
Pearl Paws	Whirling Trident	Anchor Blast	Left-Handed Paw	Coral Pink Mane	Bright Laser Pointer
Captain Kitt	Coral Shield	Anchor Blast	Right-Handed Paw	Aquamarine Mane	Bright Laser Pointer
Seashell Sam	Coral Shield	Starfish Cloak	Right-Handed Paw	Aquamarine Mane	Squeaky Mouse
Coral Claw	Tidal Roar	Wave Whistle	Left-Handed Paw	Deep Sea Blue Mane	Squeaky Mouse
Finneas Hook	Tidal Roar	Anchor Blast	Right-Handed Paw	Deep Sea Blue Mane	Bright Laser Pointer
Captain Calico	Bubble Cannon	Wave Whistle	Left-Handed Paw	Aquamarine Mane	Squeaky Mouse
Mako Meow	Seafoam Dash	Starfish Cloak	Left-Handed Paw	Deep Sea Blue Mane	Bright Laser Pointer
Buoy Bella	Bubble Cannon	Glow Horn	Left-Handed Paw	Deep Sea Blue Mane	Squeaky Mouse
Wave Purr	Whirling Trident	Glow Horn	Right-Handed Paw	Coral Pink Mane	Bright Laser Pointer
Admiral Tailspin	Seafoam Dash	Wave Whistle	Right-Handed Paw	Aquamarine Mane	Squeaky Mouse
Jellybean Jack	Bubble Cannon	Wave Whistle	Left-Handed Paw	Coral Pink Mane	Bright Laser Pointer
Marina Paws	Whirling Trident	Anchor Blast	Left-Handed Paw	Coral Pink Mane	Catnip Bell
Barnaby Whiskers	Whirling Trident	Wave Whistle	Right-Handed Paw	Deep Sea Blue Mane	Bright Laser Pointer
Pegleg Purrcival	Seafoam Dash	Glow Horn	Right-Handed Paw	Coral Pink Mane	Squeaky Mouse
Barnacle Bob	Tidal Roar	Anchor Blast	Left-Handed Paw	Aquamarine Mane	Squeaky Mouse
Gulliver Tail	Tidal Roar	Wave Whistle	Right-Handed Paw	Deep Sea Blue Mane	Squeaky Mouse
Tide Whisker	Coral Shield	Wave Whistle	Right-Handed Paw	Coral Pink Mane	Squeaky Mouse
Clawdia Tide	Coral Shield	Starfish Cloak	Right-Handed Paw	Deep Sea Blue Mane	Bright Laser Pointer

CLUE 1

The captain checked the ship sonar display which rounds distances to the nearest hundred meters to spot the runaway vessel.

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

30 7000 2300 2900 4300 1700 300 300 500 1300 1700 90 200 110 2300 2900 170 110 30

430 2900 2300 1700 5000 2300 1700 230 300 2900 7000 1100 2300 300 200

Round 32 to the nearest ten → **T**

Round 291 to the nearest hundred $\rightarrow$ **L**

Round 1,346 to the nearest hundred → **W**

Round 2,917 to the nearest hundred → **S**

Round 110 to the nearest ten $\rightarrow$ **0**

Round 1,137 to the nearest hundred →

Round 1,659 to the nearest hundred $\rightarrow$ **A**

Round 427 to the nearest ten $\rightarrow$ **U**

Round 157 to the nearest hundred → **D**

Round 234 to the nearest ten $\rightarrow$ **R**

Round 5,199 to the nearest thousand $\rightarrow$ **P**

Round 174 to the nearest ten → **N**

Round 88 to the nearest ten → **G**

Round 6,619 to the nearest thousand → **H**

Round 2,340 to the nearest hundred → **E**

Round 4,325 to the nearest hundred → **C**

Round 451 to the nearest hundred → **Y**

Scratch space:

CLUE 2

Subtraction

The quartermaster counted the gold coins left in the chest to calculate how much loot had been stolen.

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

W										W					
4777	7724	3326	2736	6319	8653	8653	8653	8840	4777	5064	7724	8121	6399	3326	
								W							
6399	8840	2736	4553	6319	4553	7381	8840	4777	7736	2736	3326	7724	4553	6319	3712 8840 7381

$6151 - 1374 = \square \rightarrow \boxed{\text{W}}$

$8010 - 1611 = \square \rightarrow \boxed{\text{H}}$

$5493 - 429 = \square \rightarrow \boxed{\text{R}}$

$3289 - 553 = \square \rightarrow \boxed{\text{N}}$

$12278 - 4554 = \square \rightarrow \boxed{\text{I}}$

$9400 - 1664 = \square \rightarrow \boxed{\text{O}}$

$5715 - 1162 = \square \rightarrow \boxed{\text{D}}$

$8390 - 4678 = \square \rightarrow \boxed{\text{M}}$

$10259 - 1419 = \square \rightarrow \boxed{\text{A}}$

$6420 - 3094 = \square \rightarrow \boxed{\text{T}}$

$11892 - 3239 = \square \rightarrow \boxed{\text{S}}$

$10352 - 2971 = \square \rightarrow \boxed{\text{P}}$

$10545 - 4226 = \square \rightarrow \boxed{\text{E}}$

$10222 - 2101 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

The sea scout measured five equal rows of floating barrels along the harbor wall.

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

G													G		
121	66	132	108	8	1	100	28	63	60	9	108	36	121	100	35

120	132	1	60	108	4	28	36	63	35	60	108	132	35	60	63	60	64	3

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

$4 \times 2 = \square \rightarrow \text{D}$

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

$5 \times 12 = \square \rightarrow \text{E}$

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

$12 \times 9 = \square \rightarrow \text{R}$

$11 \times 6 = \square \rightarrow \text{U}$

$1 \times 4 = \square \rightarrow \text{P}$

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

$1 \times 9 = \square \rightarrow \text{B}$

$1 \times 3 = \square \rightarrow \text{Y}$

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

$8 \times 8 = \square \rightarrow \text{M}$

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

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

$7 \times 9 = \square \rightarrow \text{N}$

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

Scratch space:

CLUE 4
Fractions of a number

The deckhand looked at the map grid and calculated what fraction of the reef was covered in kelp.

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

F															
11	14	20	10	29	29	3	3	4	39	3	30	26	24	20	3
18	30	10	3	39	16	28	30	10	29	14	10	30	10	8	23

$2/6 \text{ of } 33 = \square \rightarrow \text{F}$

$2/5 \text{ of } 65 = \square \rightarrow \text{B}$

$3/8 \text{ of } 8 = \square \rightarrow \text{E}$

$6/8 \text{ of } 32 = \square \rightarrow \text{L}$

$3/5 \text{ of } 65 = \square \rightarrow \text{S}$

$1/2 \text{ of } 8 = \square \rightarrow \text{P}$

$1/4 \text{ of } 64 = \square \rightarrow \text{T}$

$2/5 \text{ of } 20 = \square \rightarrow \text{C}$

$2/8 \text{ of } 72 = \square \rightarrow \text{M}$

$2/10 \text{ of } 150 = \square \rightarrow \text{A}$

$2/4 \text{ of } 28 = \square \rightarrow \text{O}$

$4/8 \text{ of } 40 = \square \rightarrow \text{U}$

$1/4 \text{ of } 92 = \square \rightarrow \text{H}$

$1/6 \text{ of } 60 = \square \rightarrow \text{N}$

$8/10 \text{ of } 35 = \square \rightarrow \text{R}$

$1/2 \text{ of } 58 = \square \rightarrow \text{D}$

Scratch space:

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

The purser evenly divided the fish biscuits into daily rations for the whole crew.

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:

$66 \div 11 = \square$

$9 \div 1 = \square$

$20 \div 4 = \square$

$14 \div 2 = \square$

$20 \div 10 = \square$

$30 \div 10 = \square$

$40 \div 4 = \square$

$88 \div 11 = \square$

$12 \div 3 = \square$

$10 \div 10 = \square$

$66 \div 6 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain let out a tidal roar, then blew a wave whistle.
2. The villain used the seafoam dash, then blew a wave whistle.
3. The villain fired the bubble cannon, then draped a starfish cloak.
4. The villain used the seafoam dash, then projected a pearl shield.
5. The villain swung the whirling trident, then blew a wave whistle.
6. The villain let out a tidal roar, then fired an anchor blast.
7. The villain used the seafoam dash, then fired an anchor blast.
8. The villain used the seafoam dash, then draped a starfish cloak.
9. The villain raised the coral shield, then draped a starfish cloak.
10. The villain fired the bubble cannon, then lit up a glow horn.
11. The villain raised the coral shield, then fired an anchor blast.
12. The villain fired the bubble cannon, then fired an anchor blast.

Answer Key

Mystery of the Sunken Catnip Treasure

Culprit: Splash Scurvy

Bubble Cannon · Anchor Blast · Right-Handed Paw · Deep Sea Blue Mane · Bright Laser Pointer

Trail: Start 21 → Clue 1 20 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SCALLYWAG DOES NOT USE A PEARL SHIELD"

Round 32 to the nearest ten = 30 (T) · Round 291 to the nearest hundred = 300 (L) · Round 1,346 to the nearest hundred = 1300 (W) · Round 2,917 to the nearest hundred = 2900 (S) · Round 110 to the nearest ten = 110 (O) · Round 1,137 to the nearest hundred = 1100 (I) · Round 1,659 to the nearest hundred = 1700 (A) · Round 427 to the nearest ten = 430 (U) · Round 157 to the nearest hundred = 200 (D) · Round 234 to the nearest ten = 230 (R) · Round 5,199 to the nearest thousand = 5000 (P) · Round 174 to the nearest ten = 170 (N) · Round 88 to the nearest ten = 90 (G) · Round 6,619 to the nearest thousand = 7000 (H) · Round 2,340 to the nearest hundred = 2300 (E) · Round 4,325 to the nearest hundred = 4300 (C) · Round 451 to the nearest hundred = 500 (Y)

Clue 2 (Subtraction): "WITNESS SAW RIGHT HANDED PAW ON TIDE MAP"

6151 - 1374 = 4777 (W) · 8010 - 1611 = 6399 (H) · 5493 - 429 = 5064 (R) · 3289 - 553 = 2736 (N) · 12278 - 4554 = 7724 (I) · 9400 - 1664 = 7736 (O) · 5715 - 1162 = 4553 (D) · 8390 - 4678 = 3712 (M) · 10259 - 1419 = 8840 (A) · 6420 - 3094 = 3326 (T) · 11892 - 3239 = 8653 (S) · 10352 - 2971 = 7381 (P) · 10545 - 4226 = 6319 (E) · 10222 - 2101 = 8121 (G)

Clue 3 (Multiplication facts (1-12)): "GUARD SHONE BRIGHT LASER POINTER AT ENEMY"

11 × 11 = 121 (G) · 4 × 2 = 8 (D) · 12 × 11 = 132 (A) · 5 × 12 = 60 (E) · 12 × 3 = 36 (I) · 12 × 9 = 108 (R) · 11 × 6 = 66 (U) · 1 × 4 = 4 (P) · 10 × 10 = 100 (H) · 1 × 9 = 9 (B) · 1 × 3 = 3 (Y) · 10 × 12 = 120 (L) · 8 × 8 = 64 (M) · 4 × 7 = 28 (O) · 1 × 1 = 1 (S) · 7 × 9 = 63 (N) · 7 × 5 = 35 (T)

Clue 4 (Fractions of a number): "FOUND DEEP SEA BLUE MANE STRAND ON ANCHOR"

2/6 of 33 = 11 (F) · 2/5 of 65 = 26 (B) · 3/8 of 8 = 3 (E) · 6/8 of 32 = 24 (L) · 3/5 of 65 = 39 (S) · 1/2 of 8 = 4 (P) · 1/4 of 64 = 16 (T) · 2/5 of 20 = 8 (C) · 2/8 of 72 = 18 (M) · 2/10 of 150 = 30 (A) · 2/4 of 28 = 14 (O) · 4/8 of 40 = 20 (U) · 1/4 of 92 = 23 (H) · 1/6 of 60 = 10 (N) · 8/10 of 35 = 28 (R) · 1/2 of 58 = 29 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Splash Scurvy

66 ÷ 11 = 6 · 9 ÷ 1 = 9 · 20 ÷ 4 = 5 · 14 ÷ 2 = 7 · 20 ÷ 10 = 2 · 30 ÷ 10 = 3 · 40 ÷ 4 = 10 · 88 ÷ 11 = 8 · 12 ÷ 3 = 4 · 10 ÷ 10 = 1 · 66 ÷ 6 = 11