



The Coral Cove Rescue

Grade 6 math · Place value, Multiplication, Rounding, Bar models, Division · Reading level grades 5-6

Detective: _____ Date: _____

A sneaky rogue captain trapped the Pearl Guardian inside an iron deck cage! Work through the ship clues to track down the culprit and set the mermaid free.

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 Rogue Captain is _____

Possible suspects

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

NAME	PRIMARY WEAPON	PIRATE GEAR	DOMINANT HAND	CAPTURED TRACE	DEFENSIVE VULNERABILITY
Marina Salt	Bubble Cannon	Iron Hook Hand	Left Handed	Seaweed Green	Bright Flash
Seafoam Sam	Anchor Cannon	Parrot Scout	Right Handed	Deep Blue	Bright Flash
Hector Hook	Anchor Cannon	Parrot Scout	Left Handed	Coral Pink	Bright Flash
Shelly Sands	Bubble Cannon	Brass Spyglass	Left Handed	Coral Pink	Loud Whistle
Morgan Wave	Steel Cutlass	Iron Hook Hand	Right Handed	Seaweed Green	Loud Whistle
Mako Mike	Net Thrower	Ancient Compass	Right Handed	Seaweed Green	Loud Whistle
Captain Calico	Trident Blaster	Iron Hook Hand	Left Handed	Deep Blue	Loud Whistle
Nerida Splash	Bubble Cannon	Ancient Compass	Left Handed	Deep Blue	Lemon Juice
Sandy Shore	Bubble Cannon	Ancient Compass	Left Handed	Deep Blue	Bright Flash
Pearl Fin	Trident Blaster	Fog Horn	Left Handed	Deep Blue	Lemon Juice
Triton Tim	Trident Blaster	Ancient Compass	Right Handed	Coral Pink	Bright Flash
Captain Hooke	Bubble Cannon	Iron Hook Hand	Left Handed	Deep Blue	Bright Flash
Finn Splash	Net Thrower	Parrot Scout	Right Handed	Seaweed Green	Loud Whistle
Coral Reef	Anchor Cannon	Ancient Compass	Right Handed	Deep Blue	Bright Flash
Goby Gale	Net Thrower	Fog Horn	Right Handed	Seaweed Green	Lemon Juice
Urchin Utley	Net Thrower	Parrot Scout	Left Handed	Deep Blue	Bright Flash
Jack Kelp	Bubble Cannon	Brass Spyglass	Left Handed	Deep Blue	Bright Flash
Scarlet Scourge	Steel Cutlass	Ancient Compass	Left Handed	Coral Pink	Bright Flash
Bluebeard Bob	Anchor Cannon	Brass Spyglass	Left Handed	Deep Blue	Bright Flash
Anchor Andy	Anchor Cannon	Fog Horn	Right Handed	Seaweed Green	Loud Whistle
Caspian Crest	Trident Blaster	Iron Hook Hand	Left Handed	Seaweed Green	Lemon Juice

CLUE 1 Place value

You decode the pirate ship logbook by finding the correct place value digit.

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

T								T											
80	900	200	40	60	800	7000	80	200	9000	7000	40	80	7000	60	70	10	5000	200	20
		T										T							
70	5000	80	500	20	200	7000	70	9000	60	200	70	80	9000	5000	1000	40	7000	20	20

What is the value of the 8 in 95,389?

→

T

What is the value of the 9 in 805,951?

→

H

What is the value of the 4 in 998,242?

→

P

What is the value of the 8 in 41,814?

→

R

What is the value of the 5 in 975,299?

→

O

What is the value of the 9 in 279,681?

→

C

What is the value of the 2 in 393,264?

→

E

What is the value of the 6 in 350,165?

→

I

What is the value of the 7 in 217,852?

→

A

What is the value of the 7 in 395,379?

→

N

What is the value of the 2 in 381,520?

→

S

What is the value of the 1 in 680,518?

→

D

What is the value of the 1 in 721,644?

→

M

What is the value of the 5 in 328,588?

→

U

Scratch space:

CLUE 2
Multiplication facts (1-12)

You count the locked cages hanging in rows on the deck to find the total sum.

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

W									W										
10	108	40	12	5	66	66	66	6	10	4	6	21	40	6	108	12			
	W																		
66	10	64	18	25	7	108	8	45	40	36	5	7	40	45	6	12	25	5	25

$10 \times 1 = \square \rightarrow$ W	$1 \times 7 = \square \rightarrow$ F	$7 \times 3 = \square \rightarrow$ P	$2 \times 4 = \square \rightarrow$ G
$5 \times 9 = \square \rightarrow$ H	$8 \times 5 = \square \rightarrow$ T	$1 \times 5 = \square \rightarrow$ E	$4 \times 9 = \square \rightarrow$ L
$3 \times 6 = \square \rightarrow$ R	$8 \times 8 = \square \rightarrow$ O	$12 \times 9 = \square \rightarrow$ I	$5 \times 5 = \square \rightarrow$ D
$6 \times 11 = \square \rightarrow$ S	$4 \times 1 = \square \rightarrow$ C	$1 \times 6 = \square \rightarrow$ A	$3 \times 4 = \square \rightarrow$ N

Scratch space:

Rounding

The ship depth gauge is rusty and only displays rounded numbers.

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

Diagram illustrating a sequence of numbers and a specific value 'T'.

Top row (15 boxes):

- Box 1: T
- Box 2: 20
- Box 3: 70
- Box 4: 2300
- Box 5: 30
- Box 6: 7000
- Box 7: 430
- Box 8: T
- Box 9: 20
- Box 10: 7000
- Box 11: 700
- Box 12: 130
- Box 13: 90
- Box 14: 7000
- Box 15: 2000

Bottom row (15 boxes):

- Box 1: 4300
- Box 2: 300
- Box 3: 7000
- Box 4: 4300
- Box 5: 200
- Box 6: 700
- Box 7: 3700
- Box 8: 70
- Box 9: 20
- Box 10: T
- Box 11: 50
- Box 12: 2900
- Box 13: 7000
- Box 14: 2000
- Box 15: 70

Round 16 to the nearest ten $\rightarrow$ **T**

Round 232 to the nearest hundred $\rightarrow$ **R**

Round 33 to the nearest ten $\rightarrow$ **C**

Round 127 to the nearest ten $\rightarrow$ **N**

Round 434 to the nearest ten $\rightarrow$ **P**

Round 1,729 to the nearest hundred → **D**

Round 50 to the nearest ten $\rightarrow$ **F**

Round 1,639 to the nearest thousand $\rightarrow$ **S**

Round 2,862 to the nearest hundred $\rightarrow$ **L**

Round 712 to the nearest hundred $\rightarrow$

Round 68 to the nearest ten $\rightarrow$ **H**

Round 2,278 to the nearest hundred $\rightarrow$ **E**

Round 87 to the nearest ten $\rightarrow$ **W**

Round 4,342 to the nearest hundred → **B**

Round 287 to the nearest hundred $\rightarrow$ **Y**

Round 3,711 to the nearest hundred $\rightarrow$ **G**

Round 6,790 to the nearest thousand → **A**

Scratch space:

CLUE 4

Bar model word problems

You draw bar models to compare the stolen treasure chests between two crews.

Draw a bar model to solve each word problem, then write its letter in the boxes to fill in the missing word.

A strand of

D							
117	57	57	78	70	53	63	57

 hair turned up at the scene.

Quartermaster shares 234 glowing pearls equally among 2 teams. How many glowing pearls does each team get?

draw a bar model

Answer: → **D**

Quartermaster used $\frac{1}{3}$ of the glowing pearls on the first day. The other 38 glowing pearls were used the next day. How many glowing pearls were there in all?

draw a bar model

Answer: → **E**

Quartermaster has 10 times as many glowing pearls as a teammate. The teammate has 7 glowing pearls. How many glowing pearls does Quartermaster have?

draw a bar model

Answer: → **B**

The red team has 69 potted sea kelp and the blue team has 16 potted sea kelp. How many more potted sea kelp does the red team have?

draw a bar model

Answer: → **L**

There were 78 shell necklaces in all. 15 shell necklaces were used. How many shell necklaces are left?

draw a bar model

Answer: → **U**

Quartermaster has 234 potted sea kelp, packed 3 to a bag. How many bags can be filled?

draw a bar model

Answer: → **P**

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

The crew splits their plunder into equal groups to prepare for sailing.

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:

$25 \div 5 = \boxed{}$

$121 \div 11 = \boxed{}$

$49 \div 7 = \boxed{}$

$4 \div 1 = \boxed{}$

$16 \div 2 = \boxed{}$

$2 \div 1 = \boxed{}$

$18 \div 6 = \boxed{}$

$72 \div 8 = \boxed{}$

$54 \div 9 = \boxed{}$

$100 \div 10 = \boxed{}$

$1 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain brandished the steel cutlass, then slashed with the iron hook hand.
2. The villain dropped the heavy anchor cannon, then checked the ancient compass.
3. The villain fired the bubble cannon, then checked the ancient compass.
4. The villain dropped the heavy anchor cannon, then sent out the screeching parrot scout.
5. The villain threw the heavy net thrower, then sent out the screeching parrot scout.
6. The villain fired the bubble cannon, then blared the loud fog horn.
7. The villain fired the bubble cannon, then scouted with the brass spyglass.
8. The villain zapped with the trident blaster, then slashed with the iron hook hand.
9. The villain threw the heavy net thrower, then scouted with the brass spyglass.
10. The villain dropped the heavy anchor cannon, then slashed with the iron hook hand.
11. The villain fired the bubble cannon, then slashed with the iron hook hand.
12. The villain dropped the heavy anchor cannon, then scouted with the brass spyglass.

Answer Key

The Coral Cove Rescue

Culprit: Bluebeard Bob

Anchor Cannon · Brass Spyglass · Left Handed · Deep Blue · Bright Flash

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE PIRATE CAPTAIN DOES NOT USE ANCIENT COMPASS"

What is the value of the 8 in 95,389? = 80 (T) · What is the value of the 9 in 805,951? = 900 (H) · What is the value of the 4 in 998,242? = 40 (P) · What is the value of the 8 in 41,814? = 800 (R) · What is the value of the 5 in 975,299? = 5000 (O) · What is the value of the 9 in 279,681? = 9000 (C) · What is the value of the 2 in 393,264? = 200 (E) · What is the value of the 6 in 350,165? = 60 (I) · What is the value of the 7 in 217,852? = 7000 (A) · What is the value of the 7 in 395,379? = 70 (N) · What is the value of the 2 in 381,520? = 20 (S) · What is the value of the 1 in 680,518? = 10 (D) · What is the value of the 1 in 721,644? = 1000 (M) · What is the value of the 5 in 328,588? = 500 (U)

Clue 2 (Multiplication facts (1-12)): "WITNESS SAW CAPTAIN SWORD FIGHT LEFT HANDED"

$10 \times 1 = 10$ (W) · $1 \times 7 = 7$ (F) · $7 \times 3 = 21$ (P) · $2 \times 4 = 8$ (G) · $5 \times 9 = 45$ (H) · $8 \times 5 = 40$ (T) · $1 \times 5 = 5$ (E) · $4 \times 9 = 36$ (L) · $3 \times 6 = 18$ (R) · $8 \times 8 = 64$ (O) · $12 \times 9 = 108$ (I) · $5 \times 5 = 25$ (D) · $6 \times 11 = 66$ (S) · $4 \times 1 = 4$ (C) · $1 \times 6 = 6$ (A) · $3 \times 4 = 12$ (N)

Clue 3 (Rounding): "THE CAPTAIN WAS BLINDED BY A BRIGHT FLASH"

Round 16 to the nearest ten = 20 (T) · Round 232 to the nearest hundred = 200 (R) · Round 33 to the nearest ten = 30 (C) · Round 127 to the nearest ten = 130 (N) · Round 434 to the nearest ten = 430 (P) · Round 1,729 to the nearest hundred = 1700 (D) · Round 50 to the nearest ten = 50 (F) · Round 1,639 to the nearest thousand = 2000 (S) · Round 2,862 to the nearest hundred = 2900 (L) · Round 712 to the nearest hundred = 700 (I) · Round 68 to the nearest ten = 70 (H) · Round 2,278 to the nearest hundred = 2300 (E) · Round 87 to the nearest ten = 90 (W) · Round 4,342 to the nearest hundred = 4300 (B) · Round 287 to the nearest hundred = 300 (Y) · Round 3,711 to the nearest hundred = 3700 (G) · Round 6,790 to the nearest thousand = 7000 (A)

Clue 4 (Bar model word problems): "DEEP BLUE"

Quartermaster shares 234 glowing pearls equally among 2 teams. How many glowing pearls does each team get? = 117 (D) · Quartermaster used $\frac{1}{3}$ of the glowing pearls on the first day. The other 38 glowing pearls were used the next day. How many glowing pearls were there in all? = 57 (E) · Quartermaster has 10 times as many glowing pearls as a teammate. The teammate has 7 glowing pearls. How many glowing pearls does Quartermaster have? = 70 (B) · The red team has 69 potted sea kelp and the blue team has 16 potted sea kelp. How many more potted sea kelp does the red team have? = 53 (L) · There were 78 shell necklaces in all. 15 shell necklaces were used. How many shell necklaces are left? = 63 (U) · Quartermaster has 234 potted sea kelp, packed 3 to a bag. How many bags can be filled? = 78 (P)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Bluebeard Bob

$25 \div 5 = 5$ · $121 \div 11 = 11$ · $49 \div 7 = 7$ · $4 \div 1 = 4$ · $16 \div 2 = 8$ · $2 \div 1 = 2$ · $18 \div 6 = 3$ · $72 \div 8 = 9$ · $54 \div 9 = 6$ · $100 \div 10 = 10$ · $1 \div 1 = 1$