



The Golden Pineapple Caper

Grade 4 math · Place value, Multiplication, Rounding, Word problems, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Ahoy! The Golden Pineapple trophy is gone from Sunny Cove. A sneaky pirate took it! Harbor Master Barnaby needs your help to find the thief before they sail 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 thief pirate is _____

Possible suspects

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

NAME	SAILING STYLE	PIRATE GEAR	EYEPATCH SIDE	HAT CHOICE	SILLY WEAKNESS
Cannonball Carl	steering the wheel	parrot buddy	right eye patched	tricorn hat	ticklish toes
Scurvy Sam	steering the wheel	hook hand	right eye patched	striped bandana	hates lime juice
Captain Hook	steering the wheel	parrot buddy	left eye patched	striped bandana	ticklish toes
Henry Morgan	cooking the hardtack	golden spyglass	right eye patched	captain wig	hates lime juice
Shiverin Sherry	steering the wheel	parrot buddy	right eye patched	captain wig	ticklish toes
Blackbeard	firing the cannons	golden spyglass	right eye patched	captain wig	scared of frogs
Quartermaster Quinn	scrubbing the deck	silver cutlass	left eye patched	striped bandana	scared of frogs
Wave Rider Will	climbing the rigging	golden spyglass	left eye patched	striped bandana	ticklish toes
Sailor Sue	steering the wheel	golden spyglass	left eye patched	striped bandana	scared of frogs
Pegleg Pete	steering the wheel	silver cutlass	left eye patched	captain wig	hates lime juice
Barnacle Bill	scrubbing the deck	silver cutlass	right eye patched	captain wig	hates lime juice
Captain Kidd	firing the cannons	glowing compass	right eye patched	striped bandana	ticklish toes
Captain Barnaby	climbing the rigging	golden spyglass	right eye patched	captain wig	hates lime juice
Grace OMalley	climbing the rigging	parrot buddy	right eye patched	captain wig	hates lime juice
Black Bart	climbing the rigging	silver cutlass	left eye patched	striped bandana	ticklish toes
Salty Sally	climbing the rigging	hook hand	left eye patched	striped bandana	ticklish toes
Gunpowder Gabe	climbing the rigging	hook hand	right eye patched	captain wig	hates lime juice
Rusty Cutlass	steering the wheel	silver cutlass	right eye patched	striped bandana	ticklish toes
Calico Jack	firing the cannons	hook hand	right eye patched	captain wig	ticklish toes
Jolly Roger	climbing the rigging	glowing compass	left eye patched	captain wig	scared of frogs
Anne Bonny	steering the wheel	hook hand	right eye patched	captain wig	ticklish toes

CLUE 1 Place value

You find a locked chest on the beach with digit wheels. Match the place value of the gold coins to open it and find the first clue.

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

T			T											T				
500	400	8000	500	400	90	8000	20	4000	1000	8000	2000	60	1000	500	400	30	80	8000
						T												
30	3000	30	70	70	1000	500	50	6000	4000	4000	700							

What is the value of the 5 in 1,569? → **T**

What is the value of the 7 in 8,876? → **R**

What is the value of the 5 in 6,957? → **B**

What is the value of the 3 in 734? → **A**

What is the value of the 8 in 28,667? → **E**

What is the value of the 7 in 9,700? → **Y**

What is the value of the 4 in 5,409? → **H**

What is the value of the 2 in 2,364? → **S**

What is the value of the 8 in 9,580? → **V**

What is the value of the 3 in 93,449? → **P**

What is the value of the 4 in 14,578? → **D**

What is the value of the 6 in 46,010? → **U**

What is the value of the 6 in 2,464? → **N**

What is the value of the 9 in 296? → **I**

What is the value of the 2 in 8,621? → **F**

What is the value of the 1 in 31,704? → **O**

Scratch space:

CLUE 2

The ship cook has rows of soup cans stacked in the galley. Multiply the rows to help him count them, and he will tell you what he saw.

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

Diagram illustrating the multiplication table for the numbers 10, 2, 49, 45, 66, 45, 60, 49, 9, 10, 2, 81, 45, 81, 35, 44, 14, 2, 10. The table is organized into two rows of boxes. The first row contains 15 boxes, and the second row contains 10 boxes. The boxes are arranged in a grid-like structure, with the first row having 15 boxes and the second row having 10 boxes. The values in the boxes are as follows:

10	2	49	45	66	45	60	49	9	10	2	81	45	81	35	44	14	2	10
49	121	49	60	81	10	9	2											

The boxes containing the value 10 are highlighted in orange.

$6 \times 11 = \boxed{} \rightarrow \boxed{}$

$11 \times 4 = \boxed{} \rightarrow \boxed{}$

$7 \times 7 = \square \rightarrow \boxed{\mathbf{E}}$

$9 \times 5 = \boxed{} \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 3 Rounding

The island lookouts can only see things in rounded miles through their foggy spyglass. Round the distance of the strange ship to get their clue.

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

T																			
20	130	2000	9000	700	7000	110	90	230	90	9000	3000	700	4300	70	50	4300	7000	700	
2300	200	70	2000	5000	7000	200	1100	2000											

Round 17 to the nearest ten → **T**

Round 72 to the nearest ten → **M**

Round 193 to the nearest hundred → **I**

Round 93 to the nearest ten → **A**

Round 1,075 to the nearest hundred → **C**

Round 7,285 to the nearest thousand → **U**

Round 1,804 to the nearest thousand → **E**

Round 229 to the nearest ten → **W**

Round 656 to the nearest hundred → **R**

Round 5,012 to the nearest thousand → **J**

Round 4,282 to the nearest hundred → **O**

Round 49 to the nearest ten → **S**

Round 8,853 to the nearest thousand → **Y**

Round 133 to the nearest ten → **H**

Round 2,281 to the nearest hundred → **L**

Round 3,446 to the nearest thousand → **F**

Round 109 to the nearest ten → **N**

Scratch space:

CLUE 4**Word problems**

The quartermaster is trying to count the heavy iron cannonballs in the hold. Solve his word puzzle to win the next clue.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of

C									
67	69	11	29	69	52	30	20	52	

G

 hair turned up at the scene.

Quartermaster Pete found 39 hardtack biscuits yesterday and 28 more today. How many hardtack biscuits in all?

Answer: →

C

Quartermaster Pete found 3 gold doubloons yesterday and 66 more today. How many gold doubloons in all?

Answer: →

A

Quartermaster Pete found 22 hardtack biscuits yesterday and 30 more today. How many hardtack biscuits in all?

Answer: →

I

Quartermaster Pete found 15 gold doubloons yesterday and 14 more today. How many gold doubloons in all?

Answer: →

T

Quartermaster Pete found 6 iron cannonballs yesterday and 5 more today. How many iron cannonballs in all?

Answer: →

P

Quartermaster Pete lined up 2 rows of 10 iron cannonballs. How many iron cannonballs in all?

Answer: →

W

Quartermaster Pete lined up 5 rows of 6 coconut treats. How many coconut treats in all?

Answer: →

N

Scratch space:

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

The deckhands want to share their coconut treats equally so they do not fight. Divide the treats fairly, and they will share their secret.

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:

$110 \div 10 = \boxed{}$

$35 \div 5 = \boxed{}$

$48 \div 4 = \boxed{}$

$70 \div 7 = \boxed{}$

$48 \div 12 = \boxed{}$

$24 \div 8 = \boxed{}$

$10 \div 2 = \boxed{}$

$5 \div 5 = \boxed{}$

$22 \div 11 = \boxed{}$

$27 \div 3 = \boxed{}$

$24 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings from the main sail, then laughs with a loud yo ho ho.
2. The villain sneaks through the captain's cabin, then escapes with the gold pineapple.
3. The villain paddles a small rowboat, then escapes with the gold pineapple.
4. The villain climbs up the anchor chain, then sails away into the fog.
5. The villain climbs up the anchor chain, then hides the loot under some barrels.
6. The villain paddles a small rowboat, then drops a trail of fish bones.
7. The villain digs a hole in the sand, then hides the loot under some barrels.
8. The villain climbs up the anchor chain, then laughs with a loud yo ho ho.
9. The villain sneaks through the captain's cabin, then drops a trail of fish bones.
10. The villain climbs up the anchor chain, then escapes with the gold pineapple.
11. The villain sneaks through the captain's cabin, then hides the loot under some barrels.
12. The villain sneaks through the captain's cabin, then sails away into the fog.

Answer Key

The Golden Pineapple Caper

Culprit: Barnacle Bill

scrubbing the deck · silver cutlass · right eye patched · captain wig · hates lime juice

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT HAVE A PARROT BUDDY"

What is the value of the 5 in 1,569? = 500 (T) · What is the value of the 7 in 8,876? = 70 (R) · What is the value of the 5 in 6,957? = 50 (B) · What is the value of the 3 in 734? = 30 (A) · What is the value of the 8 in 28,667? = 8000 (E) · What is the value of the 7 in 9,700? = 700 (Y) · What is the value of the 4 in 5,409? = 400 (H) · What is the value of the 2 in 2,364? = 2000 (S) · What is the value of the 8 in 9,580? = 80 (V) · What is the value of the 3 in 93,449? = 3000 (P) · What is the value of the 4 in 14,578? = 4000 (D) · What is the value of the 6 in 46,010? = 6000 (U) · What is the value of the 6 in 2,464? = 60 (N) · What is the value of the 9 in 296? = 90 (I) · What is the value of the 2 in 8,621? = 20 (F) · What is the value of the 1 in 31,704? = 1000 (O)

Clue 2 (Multiplication facts (1-12)): "THE SUSPECT HAS A RIGHT EYE PATCH"

$2 \times 5 = 10$ (T) · $9 \times 9 = 81$ (A) · $2 \times 7 = 14$ (G) · $6 \times 11 = 66$ (U) · $1 \times 2 = 2$ (H) · $11 \times 11 = 121$ (Y) · $11 \times 4 = 44$ (I) · $6 \times 10 = 60$ (P) · $3 \times 3 = 9$ (C) · $7 \times 5 = 35$ (R) · $7 \times 7 = 49$ (E) · $9 \times 5 = 45$ (S)

Clue 3 (Rounding): "THEY RUN AWAY FROM SOUR LIME JUICE"

Round 17 to the nearest ten = 20 (T) · Round 72 to the nearest ten = 70 (M) · Round 193 to the nearest hundred = 200 (I) · Round 93 to the nearest ten = 90 (A) · Round 1,075 to the nearest hundred = 1100 (C) · Round 7,285 to the nearest thousand = 7000 (U) · Round 1,804 to the nearest thousand = 2000 (E) · Round 229 to the nearest ten = 230 (W) · Round 656 to the nearest hundred = 700 (R) · Round 5,012 to the nearest thousand = 5000 (J) · Round 4,282 to the nearest hundred = 4300 (O) · Round 49 to the nearest ten = 50 (S) · Round 8,853 to the nearest thousand = 9000 (Y) · Round 133 to the nearest ten = 130 (H) · Round 2,281 to the nearest hundred = 2300 (L) · Round 3,446 to the nearest thousand = 3000 (F) · Round 109 to the nearest ten = 110 (N)

Clue 4 (Word problems): "CAPTAIN WIG"

Quartermaster Pete found 39 hardtack biscuits yesterday and 28 more today. How many hardtack biscuits in all? = 67 (C) · Quartermaster Pete found 3 gold doubloons yesterday and 66 more today. How many gold doubloons in all? = 69 (A) · Quartermaster Pete found 22 hardtack biscuits yesterday and 30 more today. How many hardtack biscuits in all? = 52 (I) · Quartermaster Pete found 15 gold doubloons yesterday and 14 more today. How many gold doubloons in all? = 29 (T) · Quartermaster Pete found 6 iron cannonballs yesterday and 5 more today. How many iron cannonballs in all? = 11 (P) · Quartermaster Pete lined up 2 rows of 10 iron cannonballs. How many iron cannonballs in all? = 20 (W) · Quartermaster Pete lined up 5 rows of 6 coconut treats. How many coconut treats in all? = 30 (N)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Barnacle Bill

$110 \div 10 = 11$ · $35 \div 5 = 7$ · $48 \div 4 = 12$ · $70 \div 7 = 10$ · $48 \div 12 = 4$ · $24 \div 8 = 3$ · $10 \div 2 = 5$ · $5 \div 5 = 1$ · $22 \div 11 = 2$ · $27 \div 3 = 9$ · $24 \div 4 = 6$