



The Case of the Golden Pineapple

Grade 1 math · Addition, Subtraction, Skip counting, Place value, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

Oh no! Someone took Chef Barnaby's famous Golden Pineapple from the beach kitchen! We need to find the sneaky pirate who did it. Look for clues around Coconut Cove!

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 sneaky pirate is _____

Possible suspects

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

NAME	PIRATE TOOL	PET FRIEND	SABER GRIP	BANDANA COLOR	FAVORITE SNACK
Boots	wooden shovel	parrot	left handed	blue bandana	coconut drops
Finley	gold hook	iguana	left handed	red bandana	coconut drops
Coby	wooden shovel	parrot	right handed	red bandana	coconut drops
Captain Kid	map compass	crab	left handed	blue bandana	coconut drops
Captain Jack	map compass	seagull	right handed	green bandana	sweet mango
Sandy	rope lasso	crab	right handed	blue bandana	sweet mango
River	gold hook	monkey	right handed	red bandana	salty crackers
Scurvy Sam	rope lasso	crab	left handed	green bandana	sweet mango
Skye	spyglass	iguana	left handed	red bandana	salty crackers
Mallow	map compass	crab	left handed	red bandana	coconut drops
Sunny	rope lasso	iguana	left handed	blue bandana	coconut drops
Patch	spyglass	parrot	left handed	red bandana	coconut drops
Salty Sue	spyglass	seagull	left handed	red bandana	coconut drops
Toby	rope lasso	crab	right handed	red bandana	salty crackers
Pegleg Pete	rope lasso	crab	left handed	green bandana	salty crackers
Scout	gold hook	seagull	right handed	blue bandana	salty crackers
Barnaby	spyglass	parrot	left handed	red bandana	salty crackers
Gale	rope lasso	iguana	left handed	green bandana	salty crackers
Breezy	gold hook	iguana	right handed	red bandana	sweet mango
Pip	map compass	seagull	left handed	red bandana	coconut drops
Penny	map compass	monkey	right handed	green bandana	coconut drops

CLUE 1 Addition

We count the pirate hats on the ship. We add the blue hats and the red hats to get a total.

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

A 2x10 grid of boxes. The top row contains the following sequence: an orange box with 'T', three empty boxes, an orange box with 'T', and six empty boxes. The bottom row contains the following sequence: two empty boxes, an orange box with 'T', and seven empty boxes.

T								T						
19	5	17	4	14	17	16	18	15	10	12	3	16	19	17
14	6	19	5	16	9	17	16	14	12	2	8	16	14	16

$8 + 11 = \boxed{} \rightarrow \boxed{\text{T}}$

$$5 + 4 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

$4 + 11 = \boxed{} \rightarrow \boxed{\text{Y}}$

$11 + 5 = \boxed{} \rightarrow \boxed{\text{A}}$

$$3 + 1 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$2 + 1 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$8 + 6 = \boxed{} \rightarrow \boxed{\text{N}}$$

$7 + 3 = \boxed{} \rightarrow \boxed{\text{P}}$

$$5 + 12 = \boxed{} \rightarrow \boxed{\text{E}}$$

$8 + 10 = \boxed{} \rightarrow \boxed{\text{K}}$

$4 + 8 = \square \rightarrow \boxed{1}$

$4 + 1 = \boxed{} \rightarrow \boxed{\text{H}}$

$12 + 8 = \boxed{} \rightarrow \boxed{\text{D}}$

$1 + 1 = \square \rightarrow \boxed{\mathbf{G}}$

$4 + 4 = \square \rightarrow \boxed{\text{U}}$

$$2 + 4 = \boxed{} \rightarrow \boxed{0}$$

Scratch space:

CLUE 2

Subtraction

We find a box of sweet snacks. Some snacks are gone. We subtract to find how many are left!

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

T																	
4	12	14	9	7	14	2	13	8	3	5	16	2	4	14	5	9	

			T						
1	14	11	4	12	2	7	6	14	6

$10 - 6 = \square \rightarrow \boxed{\text{T}}$

$20 - 6 = \square \rightarrow \boxed{\text{E}}$

$12 - 7 = \square \rightarrow \boxed{\text{I}}$

$15 - 4 = \square \rightarrow \boxed{\text{F}}$

$16 - 8 = \square \rightarrow \boxed{\text{Y}}$

$20 - 4 = \square \rightarrow \boxed{\text{R}}$

$4 - 1 = \square \rightarrow \boxed{\text{P}}$

$13 - 1 = \square \rightarrow \boxed{\text{H}}$

$14 - 8 = \square \rightarrow \boxed{\text{D}}$

$15 - 8 = \square \rightarrow \boxed{\text{N}}$

$9 - 8 = \square \rightarrow \boxed{\text{L}}$

$16 - 3 = \square \rightarrow \boxed{\text{K}}$

$10 - 8 = \square \rightarrow \boxed{\text{A}}$

$17 - 8 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 3 Skip counting

We follow footprints along the wet beach. We count them by twos to see how far they go.

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

T								T							T
40	12	26	45	6	15	110	40	26	22	110	9	9	20	40	
					T							T			
15	26	120	6	120	40	22	20	22	20	9	50	40	33	15	120

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **T**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **P**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **S**

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **C**

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

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **N**

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

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

Scratch space:

CLUE 4 Place value

We open a treasure chest. The gold coins are grouped in tens and ones to show the total.

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

W																
18	85	50	96	93	11	26	99	58	16	91	11	26	99	96	50	91

16	85	26	39	91	11	26	91	11	91

What number has 1 ten and 8 ones?

→

W

What number has 5 tens and 0 ones?

→

F

What number has 9 tens and 9 ones?

→

S

What number has 3 tens and 9 ones?

→

B

What number has 8 tens and 5 ones?

→

E

What number has 1 ten and 6 ones?

→

R

What number has 2 tens and 6 ones?

→

D

What number has 9 tens and 6 ones?

→

O

What number has 9 tens and 1 one?

→

A

What number has 1 ten and 1 one?

→

N

What number has 9 tens and 3 ones?

→

U

What number has 5 tens and 8 ones?

→

T

Scratch space:

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

We need ten map pieces. We have six. We find the missing number to complete our map!

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:

$8 + \underline{\quad} = 12$

$8 + \underline{\quad} = 18$

$6 + \underline{\quad} = 15$

$5 + \underline{\quad} = 17$

$5 + \underline{\quad} = 13$

$3 + \underline{\quad} = 6$

$4 + \underline{\quad} = 11$

$4 + \underline{\quad} = 9$

$3 + \underline{\quad} = 14$

$5 + \underline{\quad} = 7$

$8 + \underline{\quad} = 14$

Step 2 - cross out the sentence with each answer:

1. The villain points a shiny compass, then feeds a tiny crab.
2. The villain digs a hole in the sand, then gives a banana to a monkey.
3. The villain points a shiny compass, then gives a banana to a monkey.
4. The villain points a shiny compass, then tosses fish to a seagull.
5. The villain throws a long rope lasso, then tosses fish to a seagull.
6. The villain points a shiny compass, then pets a green iguana.
7. The villain waves a shiny gold hook, then pets a green iguana.
8. The villain digs a hole in the sand, then tosses fish to a seagull.
9. The villain looks through a spyglass, then calls a green parrot.
10. The villain looks through a spyglass, then tosses fish to a seagull.
11. The villain digs a hole in the sand, then calls a green parrot.
12. The villain looks through a spyglass, then feeds a tiny crab.

Answer Key

The Case of the Golden Pineapple

Culprit: Mallow

map compass · crab · left handed · red bandana · coconut drops

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY PIRATE DOES NOT HAVE AN IGUANA"

$8 + 11 = 19$ (T) · $5 + 4 = 9$ (V) · $4 + 11 = 15$ (Y) · $11 + 5 = 16$ (A) · $3 + 1 = 4$ (S) · $2 + 1 = 3$ (R) · $8 + 6 = 14$ (N) · $7 + 3 = 10$ (P) · $5 + 12 = 17$ (E) · $8 + 10 = 18$ (K) · $4 + 8 = 12$ (I) · $4 + 1 = 5$ (H) · $12 + 8 = 20$ (D) · $1 + 1 = 2$ (G) · $4 + 4 = 8$ (U) · $2 + 4 = 6$ (O)

Clue 2 (Subtraction): "THE SNEAKY PIRATE IS LEFT HANDED"

$10 - 6 = 4$ (T) · $20 - 6 = 14$ (E) · $12 - 7 = 5$ (I) · $15 - 4 = 11$ (F) · $16 - 8 = 8$ (Y) · $20 - 4 = 16$ (R) · $4 - 1 = 3$ (P) · $13 - 1 = 12$ (H) · $14 - 8 = 6$ (D) · $15 - 8 = 7$ (N) · $9 - 8 = 1$ (L) · $16 - 3 = 13$ (K) · $10 - 8 = 2$ (A) · $17 - 8 = 9$ (S)

Clue 3 (Skip counting): "THE PIRATE CANNOT RESIST COCONUT DROPS"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (C) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (I) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (O) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (R)

Clue 4 (Place value): "WE FOUND STRANDS OF A RED BANDANA"

What number has 1 ten and 8 ones? = 18 (W) · What number has 5 tens and 0 ones? = 50 (F) · What number has 9 tens and 9 ones? = 99 (S) · What number has 3 tens and 9 ones? = 39 (B) · What number has 8 tens and 5 ones? = 85 (E) · What number has 1 ten and 6 ones? = 16 (R) · What number has 2 tens and 6 ones? = 26 (D) · What number has 9 tens and 6 ones? = 96 (O) · What number has 9 tens and 1 one? = 91 (A) · What number has 1 ten and 1 one? = 11 (N) · What number has 9 tens and 3 ones? = 93 (U) · What number has 5 tens and 8 ones? = 58 (T)

Clue 5 (Missing addends): surviving statement is box 1 → Mallow

$8 + \underline{\quad} = 12 = 4$ · $8 + \underline{\quad} = 18 = 10$ · $6 + \underline{\quad} = 15 = 9$ · $5 + \underline{\quad} = 17 = 12$ · $5 + \underline{\quad} = 13 = 8$ · $3 + \underline{\quad} = 6 = 3$ · $4 + \underline{\quad} = 11 = 7$ · $4 + \underline{\quad} = 9 = 5$ · $3 + \underline{\quad} = 14 = 11$ · $5 + \underline{\quad} = 7 = 2$ · $8 + \underline{\quad} = 14 = 6$