The Case of the Golden Pineapple

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

The shiny Golden Pineapple has been stolen from the governor's grand feast! A sneaky pirate slipped through the harbor at midnight. It is up to you to search Scurvy Cove and find 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 pirate thief is _____

Possible suspects

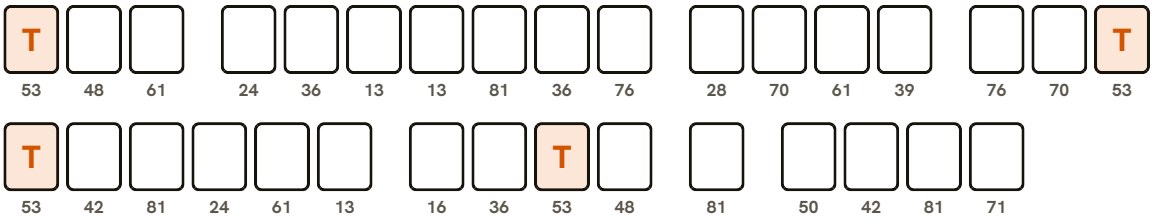
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE TOOL	PET COMPANION	FIGHTING STANCE	PIRATE HAIR	MAIN WEAKNESS
Scurvy Steve	heavy iron anchor	silly monkey	right handed stance	curly red locks	dislikes loud noises
Starlight Sally	heavy iron anchor	sleepy ship rat	left handed stance	curly red locks	afraid of sharks
Polly Plunder	golden cutlass	green parrot	left handed stance	curly red locks	afraid of sharks
Baron Barbossa	shiny silver hook	sleepy ship rat	right handed stance	curly red locks	afraid of sharks
Jolly Roger	shiny silver hook	white seagull	left handed stance	curly red locks	dislikes loud noises
Barnaby Blue	magic map compass	tiny red crab	left handed stance	curly red locks	afraid of sharks
Captain Hook	heavy iron anchor	green parrot	left handed stance	braided black beard	afraid of sharks
Redbeard Rusty	magic map compass	silly monkey	left handed stance	braided black beard	afraid of sharks
Groggy Greg	magic map compass	sleepy ship rat	left handed stance	bald with bandana	afraid of sharks
Mary Read	magic map compass	green parrot	right handed stance	bald with bandana	afraid of sharks
Sir Francis Drake	magic map compass	silly monkey	left handed stance	bald with bandana	afraid of sharks
Lucky Lola	shiny silver hook	sleepy ship rat	right handed stance	braided black beard	afraid of sharks
Captain Kidd	shiny silver hook	silly monkey	left handed stance	curly red locks	dislikes loud noises
Patchy McGee	brass spyglass	sleepy ship rat	left handed stance	curly red locks	afraid of sharks
Long John Silver	brass spyglass	green parrot	left handed stance	curly red locks	dislikes loud noises
Anne Bonny	magic map compass	green parrot	right handed stance	bald with bandana	allergic to citrus
Salty Susan	golden cutlass	tiny red crab	left handed stance	bald with bandana	dislikes loud noises
Scurvy Sam	brass spyglass	sleepy ship rat	right handed stance	curly red locks	afraid of sharks
Captain Blackbeard	magic map compass	silly monkey	left handed stance	curly red locks	afraid of sharks
Captain Kid	golden cutlass	silly monkey	right handed stance	curly red locks	allergic to citrus
Billy Bones	shiny silver hook	silly monkey	right handed stance	braided black beard	allergic to citrus

CLUE 1 Place value

> We found a secret lock box dropped near the docks. To open it, we must decode the three digit chest code by grouping the hundreds, tens, and ones blocks.

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



What number has 5 tens and 3 ones? ☐ → T

What number has 7 tens and 6 ones? ☐ → N

What number has 7 tens and 0 ones? ☐ → O

What number has 8 tens and 1 one? ☐ → A

What number has 1 ten and 6 ones? ☐ → W

What number has 4 tens and 8 ones? ☐ → H

What number has 7 tens and 1 one? ☐ → B

What number has 3 tens and 9 ones? ☐ → S

What number has 1 ten and 3 ones? ☐ → L

What number has 5 tens and 0 ones? ☐ → C

What number has 4 tens and 2 ones? ☐ → R

What number has 6 tens and 1 one? ☐ → E

What number has 2 tens and 4 ones? ☐ → V

What number has 3 tens and 6 ones? ☐ → I

What number has 2 tens and 8 ones? ☐ → D

Scratch space:

CLUE 2 Addition

> The deckhand counted the total number of cannonballs on the ship. Let us add the piles together to see how many supplies were used last night.

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

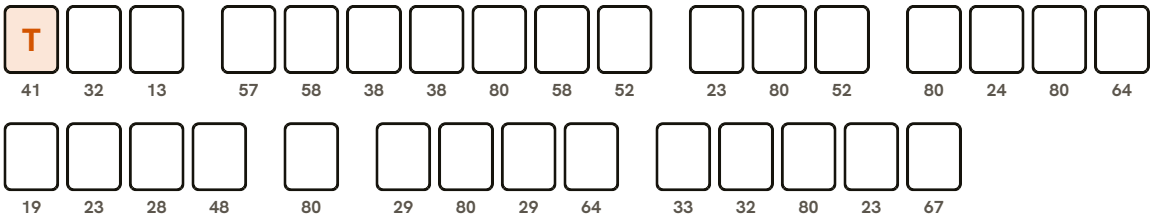
51 + 32 = ☐ → T	34 + 20 = ☐ → A	8 + 16 = ☐ → U
28 + 48 = ☐ → G	18 + 44 = ☐ → S	41 + 24 = ☐ → D
23 + 28 = ☐ → C	24 + 11 = ☐ → F	20 + 46 = ☐ → W
59 + 29 = ☐ → E	40 + 19 = ☐ → O	46 + 23 = ☐ → H
52 + 35 = ☐ → N	45 + 50 = ☐ → I	9 + 12 = ☐ → L

Scratch space:

CLUE 3 Subtraction

> A pirate drop bag had several ship biscuits inside, but some were stolen by seagulls. Subtract the eaten biscuits to find out what is left.

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



59 - 18 = ☐ → T

94 - 30 = ☐ → Y

56 - 27 = ☐ → B

58 - 26 = ☐ → H

36 - 3 = ☐ → S

62 - 38 = ☐ → W

60 - 8 = ☐ → N

67 - 10 = ☐ → V

92 - 12 = ☐ → A

56 - 33 = ☐ → R

51 - 23 = ☐ → O

25 - 12 = ☐ → E

45 - 26 = ☐ → F

60 - 2 = ☐ → I

68 - 20 = ☐ → M

59 - 21 = ☐ → L

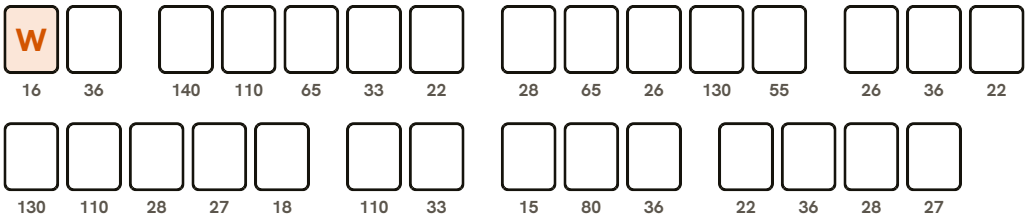
86 - 19 = ☐ → K

Scratch space:

CLUE 4 Skip counting

> We noticed footprints on the sandy beach spaced out in groups of five. Let us count the footprints by skip counting to see how far the thief ran.

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



Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 ☐ → **W**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **U**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 ☐ → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 ☐ → **T**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 ☐ → **Y**

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 ☐ → **S**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → **F**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → **C**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 ☐ → **L**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 ☐ → **K**

Scratch space:

CLUE 5 Missing addends - the last clue

> To balance the ship cargo, we need thirty barrels of water. We only have twelve, so let us find how many more barrels we must load.

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:

6 + ___ = 13 ☐	5 + ___ = 10 ☐	8 + ___ = 20 ☐	4 + ___ = 12 ☐
9 + ___ = 15 ☐	2 + ___ = 5 ☐	6 + ___ = 7 ☐	10 + ___ = 19 ☐
6 + ___ = 10 ☐	5 + ___ = 16 ☐	1 + ___ = 3 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain swings from a ship rope, then escapes on a wooden raft.
2. The villain steers the pirate galleon, then shares the plunder.
3. The villain steals the golden treasure chest, then sails into the sunset.
4. The villain steals the golden treasure chest, then shares the plunder.
5. The villain steals the golden treasure chest, then hides behind a barrel.
6. The villain sneaks into the captain cabin, then laughs with a loud ho ho ho.
7. The villain digs up a sandy beach, then shares the plunder.
8. The villain steers the pirate galleon, then escapes on a wooden raft.
9. The villain swings from a ship rope, then sails into the sunset.
10. The villain steers the pirate galleon, then sails into the sunset.
11. The villain steals the golden treasure chest, then escapes on a wooden raft.
12. The villain swings from a ship rope, then hides behind a barrel.

TEACHER / PARENT

Answer Key

The Case of the Golden Pineapple

Culprit: Captain Blackbeard

magic map compass · silly monkey · left handed stance · curly red locks · afraid of sharks

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT TRAVEL WITH A CRAB"

What number has 5 tens and 3 ones? = 53 (T) · What number has 7 tens and 6 ones? = 76 (N) · What number has 7 tens and 0 ones? = 70 (O) · What number has 8 tens and 1 one? = 81 (A) · What number has 1 ten and 6 ones? = 16 (W) · What number has 4 tens and 8 ones? = 48 (H) · What number has 7 tens and 1 one? = 71 (B) · What number has 3 tens and 9 ones? = 39 (S) · What number has 1 ten and 3 ones? = 13 (L) · What number has 5 tens and 0 ones? = 50 (C) · What number has 4 tens and 2 ones? = 42 (R) · What number has 6 tens and 1 one? = 61 (E) · What number has 2 tens and 4 ones? = 24 (V) · What number has 3 tens and 6 ones? = 36 (I) · What number has 2 tens and 8 ones? = 28 (D)

Clue 2 (Addition): "THE THIEF FOUGHT WITH A LEFT HANDED STANCE"

51 + 32 = 83 (T) · 34 + 20 = 54 (A) · 8 + 16 = 24 (U) · 28 + 48 = 76 (G) · 18 + 44 = 62 (S) · 41 + 24 = 65 (D) · 23 + 28 = 51 (C) · 24 + 11 = 35 (F) · 20 + 46 = 66 (W) · 59 + 29 = 88 (E) · 40 + 19 = 59 (O) · 46 + 23 = 69 (H) · 52 + 35 = 87 (N) · 45 + 50 = 95 (I) · 9 + 12 = 21 (L)

Clue 3 (Subtraction): "THE VILLAIN RAN AWAY FROM A BABY SHARK"

59 - 18 = 41 (T) · 94 - 30 = 64 (Y) · 56 - 27 = 29 (B) · 58 - 26 = 32 (H) · 36 - 3 = 33 (S) · 62 - 38 = 24 (W) · 60 - 8 = 52 (N) · 67 - 10 = 57 (V) · 92 - 12 = 80 (A) · 56 - 33 = 23 (R) · 51 - 23 = 28 (O) · 25 - 12 = 13 (E) · 45 - 26 = 19 (F) · 60 - 2 = 58 (I) · 68 - 20 = 48 (M) · 59 - 21 = 38 (L) · 86 - 19 = 67 (K)

Clue 4 (Skip counting): "WE FOUND CURLY RED LOCKS ON THE DECK"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 = 15 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (Y) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 = 18 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (K)

Clue 5 (Missing addends): surviving statement is box 10 → Captain Blackbeard

6 + ___ = 13 = 7 · 5 + ___ = 10 = 5 · 8 + ___ = 20 = 12 · 4 + ___ = 12 = 8 · 9 + ___ = 15 = 6 · 2 + ___ = 5 = 3 · 6 + ___ = 7 = 1 · 10 + ___ = 19 = 9 · 6 + ___ = 10 = 4 · 5 + ___ = 16 = 11 · 1 + ___ = 3 = 2