



The Case of the Missing Golden Pineapple

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

Detective: _____ Date: _____

The Golden Pineapple is gone! It was taken from the ship kitchen. The Ship Cook needs your help to find the pirate 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 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	PIRATE SKILL	CREW JOB	SWORD GRIP	PIRATE LOOK	FUNNY FEAR
Redbeard Roy	clever map reading	parrot training	right handed grip	black braids	sneeze at pepper
Charles Vane	fearsome swordplay	sea shanty singing	right handed grip	black braids	scared of frogs
Billy Bones	fearsome swordplay	sea shanty singing	right handed grip	red bandana	scared of frogs
Long John Silver	fearsome swordplay	parrot training	left handed grip	black braids	sneeze at pepper
Captain Hook	wild rope swinging	knot tying	right handed grip	black braids	sneeze at pepper
Bartholomew Roberts	expert cannon aim	sea shanty singing	right handed grip	grey ponytail	sneeze at pepper
Sharktooth Shawn	clever map reading	knot tying	right handed grip	red bandana	scared of frogs
Woodes Rogers	wild rope swinging	spyglass spotting	right handed grip	grey ponytail	tickled by feathers
Francis Drake	clever map reading	parrot training	left handed grip	grey ponytail	sneeze at pepper
Sally Sails	clever map reading	gold sniffing	left handed grip	red bandana	scared of frogs
Edward England	master ship steering	spyglass spotting	left handed grip	red bandana	tickled by feathers
Mary Read	master ship steering	parrot training	left handed grip	red bandana	scared of frogs
Calico Jack	expert cannon aim	knot tying	left handed grip	grey ponytail	sneeze at pepper
Jolly Roger	master ship steering	spyglass spotting	right handed grip	grey ponytail	sneeze at pepper
Grace O Malley	wild rope swinging	spyglass spotting	right handed grip	red bandana	scared of frogs
Anne Bonny	wild rope swinging	gold sniffing	right handed grip	grey ponytail	sneeze at pepper
Blackbeard	expert cannon aim	knot tying	right handed grip	red bandana	sneeze at pepper
Henry Morgan	clever map reading	knot tying	left handed grip	black braids	scared of frogs
Pegleg Pete	expert cannon aim	gold sniffing	right handed grip	grey ponytail	sneeze at pepper
Scurvy Sam	clever map reading	gold sniffing	right handed grip	grey ponytail	sneeze at pepper
Salty Sue	wild rope swinging	knot tying	right handed grip	grey ponytail	tickled by feathers

CLUE 1 Addition

We count the shiny coins left on the floor. First we find some, then we find more. Let us add them to get the clue.

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

T																T
8	14	5	13	6	3	3	16	6	7	4	9	5	20	7	9	8

										T				
20	6	7	15	20	5	16	20	14	16	7	8	6	5	20

$2 + 6 = \square \rightarrow$ T	$8 + 5 = \square \rightarrow$ V	$6 + 14 = \square \rightarrow$ S	$7 + 9 = \square \rightarrow$ A
$2 + 5 = \square \rightarrow$ N	$4 + 5 = \square \rightarrow$ O	$2 + 3 = \square \rightarrow$ E	$4 + 10 = \square \rightarrow$ H
$2 + 1 = \square \rightarrow$ L	$4 + 2 = \square \rightarrow$ I	$10 + 5 = \square \rightarrow$ G	$3 + 1 = \square \rightarrow$ D

Scratch space:

Subtraction

A box of ship biscuits is open. Some biscuits were taken by the thief. Subtract the eaten ones to see what is left!

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

Diagram showing two rows of boxes with numbers and the letter 'T'.

Top row: 14, 2, 17, 19, 13, 11, 10, 6, 6, 17, 7, 14, 2, 17, 4, 1, 9, 11, 7.

Bottom row: 1, 10, 14, 2, 14, 2, 17, 11, 10, 13, 2, 14, 2, 15, 8, 7.

$18 - 4 = \boxed{} \rightarrow \boxed{\text{T}}$

20 - 1 = → **Y**

$17 - 6 = \boxed{} \rightarrow \boxed{\text{R}}$

$11 - 7 = \square \rightarrow \boxed{\mathbf{S}}$

$13 - 6 = \boxed{} \rightarrow \boxed{\text{D}}$

$14 - 1 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$17 - 9 = \square \rightarrow \boxed{\mathbf{N}}$

$4 - 3 = \square \rightarrow \boxed{\mathbf{W}}$

$19 - 2 = \boxed{} \rightarrow \boxed{\text{E}}$

$19 - 4 = \square \rightarrow \boxed{\mathbf{A}}$

$7 - 1 = \boxed{} \rightarrow \boxed{\text{P}}$

$6 - 4 = \boxed{} \rightarrow \boxed{\text{H}}$

$$11 - 1 = \boxed{} \rightarrow \boxed{1}$$

$18 - 9 = \boxed{} \rightarrow \boxed{0}$

Scratch space:

CLUE 3 Skip counting

The thief left footprints on the sandy beach. They go by twos! Let us count the prints to track where they went.

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

T																
50	6	27	39	90	110	27	27	70	27	8	40	33	100	8	40	39
				T												T
110	27	15	42	50	6	27	21	27	21	21	27	42	21	33	50	

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 → **Z**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **R**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **P**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **Y**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **U**

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **A**

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

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

→



Scratch space:

CLUE 4 Place value

We found bags of pirate jewels. There are groups of ten bags and some single bags. Let us find the total value!

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

S																			
93	27	24	94	95	23	94	60	19	27	48	60	45	49	84	31	86	49	84	23
		S																	
30	49	93	27	48	45	86	94	30	86	94	94	31							

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

What number has 2 tens and 3 ones? → **R**

What number has 1 ten and 9 ones? → **P**

What number has 4 tens and 8 ones? → **N**

What number has 9 tens and 5 ones? → **G**

What number has 4 tens and 5 ones? → **T**

What number has 3 tens and 0 ones? → **W**

What number has 9 tens and 4 ones? → **E**

What number has 6 tens and 0 ones? → **Y**

What number has 4 tens and 9 ones? → **A**

What number has 8 tens and 4 ones? → **I**

What number has 8 tens and 6 ones? → **H**

What number has 3 tens and 1 one? → **L**

What number has 2 tens and 7 ones? → **O**

What number has 2 tens and 4 ones? → **M**

Scratch space:

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

The pirate needs ten keys to open the map box. They only have six. How many more keys do they need to find?

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:

$10 + \underline{\quad} = 16$

$1 + \underline{\quad} = 6$

$3 + \underline{\quad} = 13$

$6 + \underline{\quad} = 13$

$7 + \underline{\quad} = 15$

$4 + \underline{\quad} = 15$

$5 + \underline{\quad} = 8$

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

$4 + \underline{\quad} = 6$

$2 + \underline{\quad} = 6$

$10 + \underline{\quad} = 11$

Step 2 - cross out the sentence with each answer:

1. The villain fires the big cannon, then sings a funny sea shanty.
2. The villain fires the big cannon, then feeds a green parrot.
3. The villain swings on the long rope, then ties a very tight knot.
4. The villain wins the sword fight, then sings a funny sea shanty.
5. The villain swings on the long rope, then digs up the shiny gold.
6. The villain fires the big cannon, then digs up the shiny gold.
7. The villain swings on the long rope, then sings a funny sea shanty.
8. The villain swings on the long rope, then feeds a green parrot.
9. The villain decodes the secret map, then digs up the shiny gold.
10. The villain steers the pirate ship, then looks through the spyglass.
11. The villain decodes the secret map, then ties a very tight knot.
12. The villain wins the sword fight, then looks through the spyglass.

Answer Key

The Case of the Missing Golden Pineapple

Culprit: Scurvy Sam

clever map reading · gold sniffing · right handed grip · grey ponytail · sneeze at pepper

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT SING SEA SHANTIES"

$2 + 6 = 8$ (T) · $8 + 5 = 13$ (V) · $6 + 14 = 20$ (S) · $7 + 9 = 16$ (A) · $2 + 5 = 7$ (N) · $4 + 5 = 9$ (O) · $2 + 3 = 5$ (E) · $4 + 10 = 14$ (H) · $2 + 1 = 3$ (L) · $4 + 2 = 6$ (I) · $10 + 5 = 15$ (G) · $3 + 1 = 4$ (D)

Clue 2 (Subtraction): "THEY GRIPPED THE SWORD WITH THE RIGHT HAND"

$18 - 4 = 14$ (T) · $20 - 1 = 19$ (Y) · $17 - 6 = 11$ (R) · $11 - 7 = 4$ (S) · $13 - 6 = 7$ (D) · $14 - 1 = 13$ (G) · $17 - 9 = 8$ (N) · $4 - 3 = 1$ (W) · $19 - 2 = 17$ (E) · $19 - 4 = 15$ (A) · $7 - 1 = 6$ (P) · $6 - 4 = 2$ (H) · $11 - 1 = 10$ (I) · $18 - 9 = 9$ (O)

Clue 3 (Skip counting): "THEY SNEEZED LOUDLY NEAR THE PEPPER POT"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (Z) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (P) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (E) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (O)

Clue 4 (Place value): "SOME GREY PONYTAIL HAIR WAS ON THE WHEEL"

What number has 9 tens and 3 ones? = 93 (S) · What number has 2 tens and 3 ones? = 23 (R) · What number has 1 ten and 9 ones? = 19 (P) · What number has 4 tens and 8 ones? = 48 (N) · What number has 9 tens and 5 ones? = 95 (G) · What number has 4 tens and 5 ones? = 45 (T) · What number has 3 tens and 0 ones? = 30 (W) · What number has 9 tens and 4 ones? = 94 (E) · What number has 6 tens and 0 ones? = 60 (Y) · What number has 4 tens and 9 ones? = 49 (A) · What number has 8 tens and 4 ones? = 84 (I) · What number has 8 tens and 6 ones? = 86 (H) · What number has 3 tens and 1 one? = 31 (L) · What number has 2 tens and 7 ones? = 27 (O) · What number has 2 tens and 4 ones? = 24 (M)

Clue 5 (Missing addends): surviving statement is box 9 → Scurvy Sam

$10 + \underline{\quad} = 16 = 6$ · $1 + \underline{\quad} = 6 = 5$ · $3 + \underline{\quad} = 13 = 10$ · $6 + \underline{\quad} = 13 = 7$ · $7 + \underline{\quad} = 15 = 8$ · $4 + \underline{\quad} = 15 = 11$ · $5 + \underline{\quad} = 8 = 3$ · $5 + \underline{\quad} = 17 = 12$ · $4 + \underline{\quad} = 6 = 2$ · $2 + \underline{\quad} = 6 = 4$ · $10 + \underline{\quad} = 11 = 1$