



# The Case of the Stolen Treasure Map

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

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The big treasure map is gone! Last night a Sea Thief snuck onto the dock and took it from the Captain's ship. Help us find who did it.

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 Sea 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	SNEAKY TRICK	PIRATE TYPE	HAT	WEAKNESS
Jolly Jo	treasure digging	drawing fake maps	girl pirate	striped hat	afraid of seagulls
Calico Kate	rope swinging	climbing ropes	boy pirate	striped hat	scared of crabs
Wave Winnie	treasure digging	climbing ropes	girl pirate	red hat	afraid of seagulls
Cutlass Carl	rope swinging	picking locks	girl pirate	striped hat	afraid of seagulls
Sandy Sue	sword fighting	picking locks	girl pirate	black hat	scared of crabs
Mango Meg	sword fighting	climbing ropes	girl pirate	striped hat	scared of crabs
Compass Cole	treasure digging	climbing ropes	girl pirate	black hat	afraid of seagulls
Gunner Gus	treasure digging	drawing fake maps	girl pirate	black hat	afraid of seagulls
Lagoon Lily	rope swinging	drawing fake maps	girl pirate	red hat	afraid of seagulls
Driftwood Dan	parrot training	drawing fake maps	girl pirate	black hat	afraid of seagulls
Anchor Amy	rope swinging	picking locks	boy pirate	striped hat	scared of crabs
Captain Pegleg Pete	rope swinging	throwing nets	girl pirate	red hat	afraid of seagulls
Tide Tom	rope swinging	climbing ropes	girl pirate	black hat	scared of crabs
Salty Sally	treasure digging	throwing nets	boy pirate	red hat	gets seasick
Misty Mae	treasure digging	throwing nets	girl pirate	red hat	afraid of seagulls
Red Robin	fast sailing	hiding in a barrel	girl pirate	striped hat	afraid of seagulls
Sailor Seth	fast sailing	climbing ropes	boy pirate	red hat	afraid of seagulls
Barnacle Bill	rope swinging	hiding in a barrel	girl pirate	red hat	afraid of seagulls
Stormy Sam	fast sailing	drawing fake maps	girl pirate	striped hat	gets seasick
Reef Rex	sword fighting	picking locks	girl pirate	red hat	gets seasick
Plank Polly	fast sailing	hiding in a barrel	boy pirate	striped hat	gets seasick

**CLUE 1**

**Place value (tens & ones)**

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

<b>T</b>			<b>T</b>								<b>T</b>							
58	90	33	58	90	48	33	71	44	25	31	31	17	58	90	48	75	33	
48	31	25	23	25	35	35	33	14										

- |  |          |  |          |  |          |
|--|----------|--|----------|--|----------|
| What number has 5 tens and 8 ones? <input style="width: 30px;" type="text"/> | <b>T</b> | What number has 9 tens and 0 ones? <input style="width: 30px;" type="text"/> | <b>H</b> | What number has 3 tens and 3 ones? <input style="width: 30px;" type="text"/> | <b>E</b> |
| What number has 4 tens and 8 ones? <input style="width: 30px;" type="text"/> | <b>I</b> | What number has 7 tens and 1 one? <input style="width: 30px;" type="text"/>  | <b>F</b> | What number has 4 tens and 4 ones? <input style="width: 30px;" type="text"/> | <b>C</b> |
| What number has 2 tens and 5 ones? <input style="width: 30px;" type="text"/> | <b>A</b> | What number has 3 tens and 1 one? <input style="width: 30px;" type="text"/>  | <b>N</b> | What number has 1 ten and 7 ones? <input style="width: 30px;" type="text"/>  | <b>O</b> |
| What number has 7 tens and 5 ones? <input style="width: 30px;" type="text"/> | <b>D</b> | What number has 2 tens and 3 ones? <input style="width: 30px;" type="text"/> | <b>B</b> | What number has 3 tens and 5 ones? <input style="width: 30px;" type="text"/> | <b>R</b> |
| What number has 1 ten and 4 ones? <input style="width: 30px;" type="text"/>  | <b>L</b> |  |          |  |          |

Scratch space:

**CLUE 2**

**Addition**

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

<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
86	31	38	57	46	48	81	81	81	86	31	86	47	38	87	25
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
77	38	87	86	57	48	87	67	46	80	83	83				

55 + 31 =	<input type="text"/>	<input type="text" value="A"/>	16 + 15 =	<input type="text"/>	<input type="text" value="W"/>	23 + 15 =	<input type="text"/>	<input type="text" value="I"/>
31 + 26 =	<input type="text"/>	<input type="text" value="T"/>	23 + 23 =	<input type="text"/>	<input type="text" value="N"/>	34 + 14 =	<input type="text"/>	<input type="text" value="E"/>
55 + 26 =	<input type="text"/>	<input type="text" value="S"/>	16 + 31 =	<input type="text"/>	<input type="text" value="G"/>	53 + 34 =	<input type="text"/>	<input type="text" value="R"/>
15 + 10 =	<input type="text"/>	<input type="text" value="L"/>	36 + 41 =	<input type="text"/>	<input type="text" value="P"/>	40 + 27 =	<input type="text"/>	<input type="text" value="U"/>
41 + 39 =	<input type="text"/>	<input type="text" value="O"/>	46 + 37 =	<input type="text"/>	<input type="text" value="F"/>			

Scratch space:

**CLUE 3**

**Subtraction**

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

<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>		
56	34	49	56	42	76	73	73	34	63	76	56	45	24	49	83	56	67	83
<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text" value="A"/>	<input type="text"/>		
34	81	56	53	49	83	89	84	49	89	84	30	49	37	56	45	56	82	

68 - 12 =	<input type="text"/>	<input type="text" value="A"/>	64 - 30 =	<input type="text"/>	<input type="text" value="S"/>	66 - 17 =	<input type="text"/>	<input type="text" value="E"/>
75 - 33 =	<input type="text"/>	<input type="text" value="G"/>	79 - 3 =	<input type="text"/>	<input type="text" value="U"/>	76 - 3 =	<input type="text"/>	<input type="text" value="L"/>
92 - 29 =	<input type="text"/>	<input type="text" value="Q"/>	72 - 27 =	<input type="text"/>	<input type="text" value="W"/>	32 - 8 =	<input type="text"/>	<input type="text" value="K"/>
109 - 26 =	<input type="text"/>	<input type="text" value="D"/>	79 - 12 =	<input type="text"/>	<input type="text" value="N"/>	101 - 20 =	<input type="text"/>	<input type="text" value="C"/>
70 - 17 =	<input type="text"/>	<input type="text" value="R"/>	94 - 5 =	<input type="text"/>	<input type="text" value="T"/>	101 - 17 =	<input type="text"/>	<input type="text" value="H"/>
37 - 7 =	<input type="text"/>	<input type="text" value="I"/>	69 - 32 =	<input type="text"/>	<input type="text" value="F"/>	94 - 12 =	<input type="text"/>	<input type="text" value="Y"/>

Scratch space:

**CLUE 4**

**Skip counting**

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

<b>A</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<b>A</b>	<input type="text"/>	<input type="text"/>	<b>A</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
18	50	16	140	35	18	42	80	18	60	140	50	120	12	12	16	140	120	100			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
42	35	16	140	16	25	33															

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, , 20, 22

**A**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, , 60, 70

**R**

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, , 18, 20

**E**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, , 150, 160

**D**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, , 40, 45

**H**

Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, , 45, 48

**T**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, , 90, 100

**W**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, , 65, 70

**S**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, , 130, 140

**O**

Skip-count by 3s - fill the blank: 3, 6, 9, , 15, 18

**P**

Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, , 110, 120

**N**

Skip-count by 5s - fill the blank: 5, 10, 15, 20, , 30, 35

**C**

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

**K**

Scratch space:

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

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:**

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

$4 + \underline{\quad} = 16$

$8 + \underline{\quad} = 13$

$5 + \underline{\quad} = 15$

$8 + \underline{\quad} = 10$

$8 + \underline{\quad} = 16$

$6 + \underline{\quad} = 10$

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

$2 + \underline{\quad} = 3$

$2 + \underline{\quad} = 13$

$6 + \underline{\quad} = 9$

**Step 2 - cross out the sentence with each answer:**

1. The villain swings a sword, then throws a net over the guard.
2. The villain sails away fast, then climbs up the ropes.
3. The villain sends a parrot ahead, then climbs up the ropes.
4. The villain sends a parrot ahead, then throws a net over the guard.
5. The villain swings in on a rope, then leaves a fake map.
6. The villain digs up the treasure, then climbs up the ropes.
7. The villain swings in on a rope, then throws a net over the guard.
8. The villain swings in on a rope, then picks the lock.
9. The villain swings a sword, then picks the lock.
10. The villain sends a parrot ahead, then leaves a fake map.
11. The villain sails away fast, then hides in a barrel.
12. The villain digs up the treasure, then throws a net over the guard.

# Answer Key

## The Case of the Stolen Treasure Map

### Culprit: Wave Winnie

treasure digging · climbing ropes · girl pirate · red hat · afraid of seagulls

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 9 → Clue 4 4 → Clue 5 1

### Clue 1 (Place value (tens & ones)): "THE THIEF CANNOT HIDE IN A BARREL"

What number has 5 tens and 8 ones? = 58 (T) · What number has 9 tens and 0 ones? = 90 (H) · What number has 3 tens and 3 ones? = 33 (E) · What number has 4 tens and 8 ones? = 48 (I) · What number has 7 tens and 1 one? = 71 (F) · What number has 4 tens and 4 ones? = 44 (C) · What number has 2 tens and 5 ones? = 25 (A) · What number has 3 tens and 1 one? = 31 (N) · What number has 1 ten and 7 ones? = 17 (O) · What number has 7 tens and 5 ones? = 75 (D) · What number has 2 tens and 3 ones? = 23 (B) · What number has 3 tens and 5 ones? = 35 (R) · What number has 1 ten and 4 ones? = 14 (L)

### Clue 2 (Addition): "A WITNESS SAW A GIRL PIRATE RUN OFF"

$55 + 31 = 86$  (A) ·  $16 + 15 = 31$  (W) ·  $23 + 15 = 38$  (I) ·  $31 + 26 = 57$  (T) ·  $23 + 23 = 46$  (N) ·  $34 + 14 = 48$  (E) ·  $55 + 26 = 81$  (S) ·  $16 + 31 = 47$  (G) ·  $53 + 34 = 87$  (R) ·  $15 + 10 = 25$  (L) ·  $36 + 41 = 77$  (P) ·  $40 + 27 = 67$  (U) ·  $41 + 39 = 80$  (O) ·  $46 + 37 = 83$  (F)

### Clue 3 (Subtraction): "A SEAGULL SQUAWKED AND SCARED THE THIEF AWAY"

$68 - 12 = 56$  (A) ·  $64 - 30 = 34$  (S) ·  $66 - 17 = 49$  (E) ·  $75 - 33 = 42$  (G) ·  $79 - 3 = 76$  (U) ·  $76 - 3 = 73$  (L) ·  $92 - 29 = 63$  (Q) ·  $72 - 27 = 45$  (W) ·  $32 - 8 = 24$  (K) ·  $109 - 26 = 83$  (D) ·  $79 - 12 = 67$  (N) ·  $101 - 20 = 81$  (C) ·  $70 - 17 = 53$  (R) ·  $94 - 5 = 89$  (T) ·  $101 - 17 = 84$  (H) ·  $37 - 7 = 30$  (I) ·  $69 - 32 = 37$  (F) ·  $94 - 12 = 82$  (Y)

### Clue 4 (Skip counting): "A RED HAT WAS DROPPED ON THE DECK"

Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, \_\_, 20, 22 = 18 (A) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, \_\_, 60, 70 = 50 (R) · Skip-count by 2s - fill the blank: 2, 4, 6, 8, 10, 12, 14, \_\_, 18, 20 = 16 (E) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, \_\_, 150, 160 = 140 (D) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, \_\_, 40, 45 = 35 (H) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, \_\_, 45, 48 = 42 (T) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, \_\_, 90, 100 = 80 (W) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, \_\_, 65, 70 = 60 (S) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, \_\_, 130, 140 = 120 (O) · Skip-count by 3s - fill the blank: 3, 6, 9, \_\_, 15, 18 = 12 (P) · Skip-count by 10s - fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, \_\_, 110, 120 = 100 (N) · Skip-count by 5s - fill the blank: 5, 10, 15, 20, \_\_, 30, 35 = 25 (C) · Skip-count by 3s - fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, \_\_, 36, 39 = 33 (K)

### Clue 5 (Missing addends): surviving statement is box 6 → Wave Winnie

$6 + \_ = 13 = 7$  ·  $4 + \_ = 16 = 12$  ·  $8 + \_ = 13 = 5$  ·  $5 + \_ = 15 = 10$  ·  $8 + \_ = 10 = 2$  ·  $8 + \_ = 16 = 8$  ·  $6 + \_ = 10 = 4$  ·  $6 + \_ = 15 = 9$  ·  $2 + \_ = 3 = 1$  ·  $2 + \_ = 13 = 11$  ·  $6 + \_ = 9 = 3$