



# The Sky-Pirates of Nimbus Bay

Grade 4 math · Addition, Subtraction, Multiplication, Rounding, Division · Reading level grades 3-4

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

The Golden Compass has been snatched from the Grand Airship Chief! The sky-islands are in chaos. We must help Pip the Sky-Pup and the Nimbus Cloud Rangers track down the sneaky thief before they sail beyond the wind barrier!

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 Sky-Pirate Rogue is** \_\_\_\_\_

# Possible suspects

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

| NAME            | NAVIGATION GEAR  | ESCAPE TOOL       | EARRING STYLE     | BANDANA COLOR    | DISTRACTION TRICK   |
|-----------------|------------------|-------------------|-------------------|------------------|---------------------|
| Windy Wendy     | brass spyglass   | mechanical monkey | left-ear earring  | crimson bandana  | sour lemon drop     |
| Barnaby Wilde   | grappling hook   | clockwork parrot  | left-ear earring  | crimson bandana  | sour lemon drop     |
| Grace OMalley   | brass spyglass   | hover board       | left-ear earring  | sapphire bandana | sour lemon drop     |
| Helmsman Hank   | brass spyglass   | clockwork parrot  | left-ear earring  | crimson bandana  | sour lemon drop     |
| Captain Flint   | wind-up glider   | clockwork parrot  | right-ear earring | emerald bandana  | sour lemon drop     |
| Breezy Beatrice | brass spyglass   | bubble blaster    | right-ear earring | crimson bandana  | sour lemon drop     |
| Zephyr Zach     | sky-map globe    | bubble blaster    | left-ear earring  | sapphire bandana | sour lemon drop     |
| Scurvy Steve    | grappling hook   | clockwork parrot  | right-ear earring | sapphire bandana | shiny copper coin   |
| Salty Sam       | sky-map globe    | bubble blaster    | right-ear earring | sapphire bandana | squeaky rubber duck |
| Sadie the Goat  | grappling hook   | bubble blaster    | right-ear earring | crimson bandana  | sour lemon drop     |
| Cloudy Clyde    | grappling hook   | mechanical monkey | left-ear earring  | crimson bandana  | sour lemon drop     |
| Long John       | wind-up glider   | pocket telescope  | right-ear earring | crimson bandana  | shiny copper coin   |
| Henry Avery     | brass spyglass   | mechanical monkey | left-ear earring  | crimson bandana  | squeaky rubber duck |
| Mary Read       | magnetic compass | hover board       | left-ear earring  | emerald bandana  | squeaky rubber duck |
| Navigator Ned   | brass spyglass   | pocket telescope  | right-ear earring | crimson bandana  | shiny copper coin   |
| Gale Force Gary | magnetic compass | clockwork parrot  | right-ear earring | sapphire bandana | sour lemon drop     |
| Sir Francis     | grappling hook   | bubble blaster    | left-ear earring  | sapphire bandana | shiny copper coin   |
| Pegleg Penny    | grappling hook   | bubble blaster    | left-ear earring  | crimson bandana  | sour lemon drop     |
| Calico Jack     | wind-up glider   | hover board       | left-ear earring  | sapphire bandana | sour lemon drop     |
| Anne Bonny      | magnetic compass | pocket telescope  | left-ear earring  | sapphire bandana | sour lemon drop     |
| Stormy Stella   | magnetic compass | pocket telescope  | left-ear earring  | crimson bandana  | sour lemon drop     |

## CLUE 1 Addition

To find the next island, we must count all the glowing fuel barrels in the cargo bay. Add the totals together to unlock the first clue!

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

|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| <b>T</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>T</b> |      |      |
| 8208     | 8353 | 8157 | 9628 | 5299 | 8946 | 8946 | 4460 | 5299 | 8368 | 2546 | 9871 | 8157 | 4502 | 8368 | 9871 | 8208     |      |      |
|          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>T</b> |      |      |
| 9871     | 5315 | 8368 | 4460 | 9617 | 8946 | 9871 | 9617 | 7273 | 5315 | 9871 | 5281 | 7273 | 8220 | 4460 | 5281 | 5281     | 9871 | 8208 |

|                                              |                                              |                                              |
|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| $2903 + 5305 = \square \rightarrow$ <b>T</b> | $2495 + 2820 = \square \rightarrow$ <b>W</b> | $1266 + 1280 = \square \rightarrow$ <b>D</b> |
| $4837 + 3383 = \square \rightarrow$ <b>P</b> | $3744 + 3529 = \square \rightarrow$ <b>K</b> | $6357 + 3271 = \square \rightarrow$ <b>V</b> |
| $1623 + 2837 = \square \rightarrow$ <b>A</b> | $3248 + 5698 = \square \rightarrow$ <b>L</b> | $5949 + 3922 = \square \rightarrow$ <b>O</b> |
| $2813 + 5540 = \square \rightarrow$ <b>H</b> | $2602 + 5555 = \square \rightarrow$ <b>E</b> | $6389 + 3228 = \square \rightarrow$ <b>C</b> |
| $1597 + 3702 = \square \rightarrow$ <b>I</b> | $1797 + 2705 = \square \rightarrow$ <b>S</b> | $5279 + 3089 = \square \rightarrow$ <b>N</b> |
| $1978 + 3303 = \square \rightarrow$ <b>R</b> |                                              |                                              |

Scratch space:

## CLUE 2

## Subtraction

Our airship is too heavy! We need to drop some heavy sandbags over the side. Calculate how many bags are left to get the second clue.

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

|              |      |      |              |      |      |      |      |      |      |      |              |      |      |      |      |
|--------------|------|------|--------------|------|------|------|------|------|------|------|--------------|------|------|------|------|
| <div>T</div> |      |      | <div>T</div> |      |      |      |      |      |      |      |              |      |      |      |      |
| 1338         | 5164 | 3897 | 1338         | 5164 | 1373 | 3897 | 3349 | 3102 | 3897 | 7113 | 8125         | 7420 | 7113 |      |      |
|              |      |      |              |      |      |      |      |      |      |      | <div>T</div> |      |      |      |      |
| 7420         | 7480 | 7113 | 8125         | 5616 | 5475 | 1373 | 5963 | 2793 | 5475 | 3897 | 3349         | 1338 | 3897 | 7113 | 8125 |
|              |      |      |              |      |      |      |      |      |      |      |              |      |      |      |      |
| 3897         | 7113 | 8125 | 8125         | 1373 | 5963 | 2793 |      |      |      |      |              |      |      |      |      |

$3846 - 2508 = \square \rightarrow \boxed{T}$

$8891 - 3416 = \square \rightarrow \boxed{L}$

$4839 - 3466 = \square \rightarrow \boxed{I}$

$6197 - 3095 = \square \rightarrow \boxed{W}$

$9784 - 2304 = \square \rightarrow \boxed{P}$

$6067 - 2718 = \square \rightarrow \boxed{F}$

$8406 - 2790 = \square \rightarrow \boxed{K}$

$8788 - 1675 = \square \rightarrow \boxed{A}$

$7870 - 3973 = \square \rightarrow \boxed{E}$

$8673 - 3509 = \square \rightarrow \boxed{H}$

$10764 - 3344 = \square \rightarrow \boxed{S}$

$12466 - 4341 = \square \rightarrow \boxed{R}$

$6219 - 256 = \square \rightarrow \boxed{N}$

$4030 - 1237 = \square \rightarrow \boxed{G}$

Scratch space:

## CLUE 3

## Multiplication facts (1-12)

The pirate left a locked chest with a grid of shiny gold buttons. Multiply the rows and columns of buttons to pop open the third clue.

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

|    |    |    |    |   |     |    |    |    |    |     |    |    |    |    |     |     |    |
|----|----|----|----|---|-----|----|----|----|----|-----|----|----|----|----|-----|-----|----|
| T  |    |    |    |   |     |    | T  |    |    |     |    |    |    |    |     |     |    |
| 42 | 15 | 64 | 22 | 2 | 36  | 42 | 2  | 16 | 32 | 144 | 15 | 72 | 16 | 32 | 108 | 144 |    |
|    |    |    |    |   |     |    |    |    |    |     |    |    |    |    |     |     |    |
|    |    |    |    |   |     |    |    |    |    |     |    |    |    |    |     |     |    |
| 12 | 72 | 1  | 80 | 2 | 144 | 1  | 63 | 72 | 56 | 64  | 80 | 1  | 32 | 88 | 72  | 1   | 36 |

$6 \times 7 = \square \rightarrow \boxed{\text{T}}$

$11 \times 2 = \square \rightarrow \boxed{\text{C}}$

$8 \times 11 = \square \rightarrow \boxed{\text{D}}$

$1 \times 1 = \square \rightarrow \boxed{\text{O}}$

$3 \times 12 = \square \rightarrow \boxed{\text{P}}$

$8 \times 8 = \square \rightarrow \boxed{\text{E}}$

$9 \times 12 = \square \rightarrow \boxed{\text{K}}$

$1 \times 2 = \square \rightarrow \boxed{\text{A}}$

$12 \times 12 = \square \rightarrow \boxed{\text{S}}$

$5 \times 3 = \square \rightarrow \boxed{\text{H}}$

$9 \times 7 = \square \rightarrow \boxed{\text{U}}$

$4 \times 8 = \square \rightarrow \boxed{\text{N}}$

$12 \times 1 = \square \rightarrow \boxed{\text{F}}$

$10 \times 8 = \square \rightarrow \boxed{\text{M}}$

$12 \times 6 = \square \rightarrow \boxed{\text{R}}$

$4 \times 4 = \square \rightarrow \boxed{\text{I}}$

$8 \times 7 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

## CLUE 4 Rounding

Our wind radar is acting up and only shows air pressure rounded to the nearest ten. Round the current reading to find the fourth clue!

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

|          |      |      |     |      |    |     |     |      |      |     |    |     |     |     |      |     |  |
|----------|------|------|-----|------|----|-----|-----|------|------|-----|----|-----|-----|-----|------|-----|--|
| <b>W</b> |      |      |     |      |    |     |     |      |      |     |    |     |     |     |      |     |  |
| 900      | 2300 | 5000 | 300 | 3700 | 70 | 370 | 200 | 2000 | 1100 | 500 | 70 | 370 | 200 | 300 | 5000 | 500 |  |

  

|      |      |      |     |     |     |    |    |     |    |     |     |    |     |  |  |  |  |
|------|------|------|-----|-----|-----|----|----|-----|----|-----|-----|----|-----|--|--|--|--|
|      |      |      |     |     |     |    |    |     |    |     |     |    |     |  |  |  |  |
| 1700 | 1100 | 3000 | 290 | 200 | 300 | 70 | 30 | 500 | 70 | 370 | 500 | 70 | 500 |  |  |  |  |

Round 859 to the nearest hundred  → **W**

Round 369 to the nearest ten  → **D**

Round 71 to the nearest ten  → **N**

Round 290 to the nearest ten  → **M**

Round 1,668 to the nearest hundred  → **C**

Round 1,106 to the nearest hundred  → **R**

Round 3,322 to the nearest thousand  → **I**

Round 2,257 to the nearest hundred  → **E**

Round 1,552 to the nearest thousand  → **T**

Round 27 to the nearest ten  → **B**

Round 514 to the nearest hundred  → **A**

Round 151 to the nearest hundred  → **S**

Round 4,914 to the nearest thousand  → **F**

Round 300 to the nearest hundred  → **O**

Round 3,655 to the nearest hundred  → **U**

Scratch space:

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

We found a small bag of silver gears. If we split the gears evenly among our crew members, how many does each person get? Solve to reveal the final 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:**

$9 \div 3 = \boxed{\phantom{00}}$

$60 \div 12 = \boxed{\phantom{00}}$

$100 \div 10 = \boxed{\phantom{00}}$

$42 \div 6 = \boxed{\phantom{00}}$

$24 \div 6 = \boxed{\phantom{00}}$

$32 \div 4 = \boxed{\phantom{00}}$

$5 \div 5 = \boxed{\phantom{00}}$

$18 \div 2 = \boxed{\phantom{00}}$

$48 \div 8 = \boxed{\phantom{00}}$

$44 \div 4 = \boxed{\phantom{00}}$

$22 \div 11 = \boxed{\phantom{00}}$

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

1. The villain soars high with the wind-up glider, then shoots a thick wall of soap with a bubble blaster.
2. The villain plots a sneaky escape route on the sky-map globe, then peers through a pocket telescope to find a hiding spot.
3. The villain swings across the clouds with the grappling hook, then escapes while a mechanical monkey throws bananas.
4. The villain steers through the storm with the magnetic compass, then zooms away on a shiny hover board.
5. The villain steers through the storm with the magnetic compass, then peers through a pocket telescope to find a hiding spot.
6. The villain swings across the clouds with the grappling hook, then peers through a pocket telescope to find a hiding spot.
7. The villain soars high with the wind-up glider, then flies off as a clockwork parrot squawks.
8. The villain plots a sneaky escape route on the sky-map globe, then escapes while a mechanical monkey throws bananas.
9. The villain uses the brass spyglass to spot the airship, then shoots a thick wall of soap with a bubble blaster.
10. The villain uses the brass spyglass to spot the airship, then escapes while a mechanical monkey throws bananas.
11. The villain swings across the clouds with the grappling hook, then zooms away on a shiny hover board.
12. The villain swings across the clouds with the grappling hook, then shoots a thick wall of soap with a bubble blaster.

# Answer Key

## The Sky-Pirates of Nimbus Bay

### Culprit: Pegleg Penny

grappling hook · bubble blaster · left-ear earring · crimson bandana · sour lemon drop

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

#### Clue 1 (Addition): "THE VILLAIN DOES NOT OWN A CLOCKWORK PARROT"

$2903 + 5305 = 8208$  (T) ·  $2495 + 2820 = 5315$  (W) ·  $1266 + 1280 = 2546$  (D) ·  $4837 + 3383 = 8220$  (P) ·  $3744 + 3529 = 7273$  (K) ·  $6357 + 3271 = 9628$  (V) ·  $1623 + 2837 = 4460$  (A) ·  $3248 + 5698 = 8946$  (L) ·  $5949 + 3922 = 9871$  (O) ·  $2813 + 5540 = 8353$  (H) ·  $2602 + 5555 = 8157$  (E) ·  $6389 + 3228 = 9617$  (C) ·  $1597 + 3702 = 5299$  (I) ·  $1797 + 2705 = 4502$  (S) ·  $5279 + 3089 = 8368$  (N) ·  $1978 + 3303 = 5281$  (R)

#### Clue 2 (Subtraction): "THE THIEF WEARS A SPARKLING LEFTEAR EARRING"

$3846 - 2508 = 1338$  (T) ·  $8891 - 3416 = 5475$  (L) ·  $4839 - 3466 = 1373$  (I) ·  $6197 - 3095 = 3102$  (W) ·  $9784 - 2304 = 7480$  (P) ·  $6067 - 2718 = 3349$  (F) ·  $8406 - 2790 = 5616$  (K) ·  $8788 - 1675 = 7113$  (A) ·  $7870 - 3973 = 3897$  (E) ·  $8673 - 3509 = 5164$  (H) ·  $10764 - 3344 = 7420$  (S) ·  $12466 - 4341 = 8125$  (R) ·  $6219 - 256 = 5963$  (N) ·  $4030 - 1237 = 2793$  (G)

#### Clue 3 (Multiplication facts (1-12)): "THE CAPTAIN SHRINKS FROM A SOUR LEMON DROP"

$6 \times 7 = 42$  (T) ·  $11 \times 2 = 22$  (C) ·  $8 \times 11 = 88$  (D) ·  $1 \times 1 = 1$  (O) ·  $3 \times 12 = 36$  (P) ·  $8 \times 8 = 64$  (E) ·  $9 \times 12 = 108$  (K) ·  $1 \times 2 = 2$  (A) ·  $12 \times 12 = 144$  (S) ·  $5 \times 3 = 15$  (H) ·  $9 \times 7 = 63$  (U) ·  $4 \times 8 = 32$  (N) ·  $12 \times 1 = 12$  (F) ·  $10 \times 8 = 80$  (M) ·  $12 \times 6 = 72$  (R) ·  $4 \times 4 = 16$  (I) ·  $8 \times 7 = 56$  (L)

#### Clue 4 (Rounding): "WE FOUND STRANDS OF A CRIMSON BANDANA"

Round 859 to the nearest hundred = 900 (W) · Round 369 to the nearest ten = 370 (D) · Round 71 to the nearest ten = 70 (N) · Round 290 to the nearest ten = 290 (M) · Round 1,668 to the nearest hundred = 1700 (C) · Round 1,106 to the nearest hundred = 1100 (R) · Round 3,322 to the nearest thousand = 3000 (I) · Round 2,257 to the nearest hundred = 2300 (E) · Round 1,552 to the nearest thousand = 2000 (T) · Round 27 to the nearest ten = 30 (B) · Round 514 to the nearest hundred = 500 (A) · Round 151 to the nearest hundred = 200 (S) · Round 4,914 to the nearest thousand = 5000 (F) · Round 300 to the nearest hundred = 300 (O) · Round 3,655 to the nearest hundred = 3700 (U)

#### Clue 5 (Division facts (1-12)): surviving statement is box 12 → Pegleg Penny

$9 \div 3 = 3$  ·  $60 \div 12 = 5$  ·  $100 \div 10 = 10$  ·  $42 \div 6 = 7$  ·  $24 \div 6 = 4$  ·  $32 \div 4 = 8$  ·  $5 \div 5 = 1$  ·  $18 \div 2 = 9$  ·  $48 \div 8 = 6$  ·  $44 \div 4 = 11$  ·  $22 \div 11 = 2$