



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.

T																	T
8208	8353	8157	9628	5299	8946	8946	4460	5299	8368	2546	9871	8157	4502	8368	9871	8208	

																	T	
9871	5315	8368	4460	9617	8946	9871	9617	7273	5315	9871	5281	7273	8220	4460	5281	5281	9871	8208

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

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.

T			T												
1338	5164	3897	1338	5164	1373	3897	3349	3102	3897	7113	8125	7420	7113		
											T				
7420	7480	7113	8125	5616	5475	1373	5963	2793	5475	3897	3349	1338	3897	7113	8125
3897	7113	8125	8125	1373	5963	2793									

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

W																	
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:

$9 \div 3 = \boxed{}$

$60 \div 12 = \boxed{}$

$100 \div 10 = \boxed{}$

$42 \div 6 = \boxed{}$

$24 \div 6 = \boxed{}$

$32 \div 4 = \boxed{}$

$5 \div 5 = \boxed{}$

$18 \div 2 = \boxed{}$

$48 \div 8 = \boxed{}$

$44 \div 4 = \boxed{}$

$22 \div 11 = \boxed{}$

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

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