



Sky Pirates of the Cloud Archipelago

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

Detective: _____ Date: _____

A sneaky sky pirate has stolen the Golden Wind Compass from Sky Captain Barnaby! Without it, the flying fleet will get lost in the storm clouds. We must search the floating docks, solve the math puzzles, and track down the 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 sky pirate is _____

Possible suspects

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

NAME	AIRSHIP	SKY TOOL	STEERING HAND	BANDANA COLOR	SILLY FEAR
Grace OMalley	Sun Sail	Rope Launcher	Right Handed	Blue Bandana	Scared of Parrots
Breezy Bella	Cloud Glider	Sky Hook	Left Handed	Green Bandana	Scared of Heights
Ginger Gold	Star Cutter	Rope Launcher	Left Handed	Blue Bandana	Scared of Heights
Cloudy Clara	Cloud Glider	Anchor Blaster	Right Handed	Green Bandana	Scared of Bubbles
Salty Sue	Gale Wing	Magnetic Claw	Right Handed	Blue Bandana	Scared of Heights
Zephyr Zach	Storm Runner	Magnetic Claw	Left Handed	Red Bandana	Scared of Heights
Penny Plunder	Gale Wing	Magnetic Claw	Left Handed	Green Bandana	Scared of Bubbles
Mary Read	Star Cutter	Anchor Blaster	Left Handed	Blue Bandana	Scared of Parrots
Peggy Sparrow	Storm Runner	Vine Whip	Right Handed	Blue Bandana	Scared of Bubbles
Long John	Star Cutter	Vine Whip	Right Handed	Green Bandana	Scared of Bubbles
Windy Will	Gale Wing	Rope Launcher	Right Handed	Green Bandana	Scared of Heights
Anne Bonny	Star Cutter	Rope Launcher	Right Handed	Red Bandana	Scared of Parrots
Stede Bonnet	Storm Runner	Rope Launcher	Right Handed	Blue Bandana	Scared of Bubbles
Captain Flint	Storm Runner	Sky Hook	Left Handed	Red Bandana	Scared of Heights
Henry Morgan	Star Cutter	Rope Launcher	Left Handed	Green Bandana	Scared of Heights
Stormy Stella	Sun Sail	Sky Hook	Left Handed	Blue Bandana	Scared of Heights
Blackbeard Ben	Storm Runner	Sky Hook	Left Handed	Green Bandana	Scared of Heights
Barnaby Blue	Storm Runner	Anchor Blaster	Left Handed	Green Bandana	Scared of Heights
Sir Francis	Sun Sail	Vine Whip	Right Handed	Blue Bandana	Scared of Bubbles
Scurvy Sam	Sun Sail	Magnetic Claw	Left Handed	Green Bandana	Scared of Heights
SkyScurry Sid	Storm Runner	Vine Whip	Right Handed	Red Bandana	Scared of Bubbles

CLUE 1

We need to pack supplies for our chase airship. Help us count the gear crates to get started.

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'.

Row 1 (left to right):

- Box 1: T
- Box 2: 230
- Box 3: 7000
- Box 4: 170
- Box 5: 290
- Box 6: 50
- Box 7: 110
- Box 8: 110
- Box 9: 1700
- Box 10: 50
- Box 11: 200
- Box 12: 900
- Box 13: 4300
- Box 14: 170
- Box 15: 130
- Box 16: 200
- Box 17: 4300
- Box 18: T

Row 2 (left to right):

- Box 1: 90
- Box 2: 130
- Box 3: 170
- Box 4: T
- Box 5: 230
- Box 6: 7000
- Box 7: 170
- Box 8: 1700
- Box 9: 200
- Box 10: 2000
- Box 11: 7000
- Box 12: 4300
- Box 13: 500
- Box 14: 5000
- Box 15: 110
- Box 16: 1700
- Box 17: 130
- Box 18: T
- Box 19: 230
- Box 20: 170
- Box 21: 500

Round 226 to the nearest ten $\rightarrow$ **T**

Round 4,618 to the nearest thousand → **B**

Round 49 to the nearest ten $\rightarrow$

Round 291 to the nearest ten $\rightarrow$ **V**

Round 93 to the nearest ten $\rightarrow$

Round 522 to the nearest hundred → **R**

Round 4,257 to the nearest hundred $\rightarrow$

Round 132 to the nearest ten → **S**

Round 1,692 to the nearest thousand → **C**

Round 1,659 to the nearest hundred → **A**

Round 114 to the nearest ten $\rightarrow$

Round 6,513 to the nearest thousand $\rightarrow$ **H**

Round 173 to the nearest ten → **E**

Round 236 to the nearest hundred → **N**

Round 874 to the nearest hundred → **D**

Scratch space:

CLUE 2

Word problems

The wind speed radar only shows rounded numbers. Round the cloud density to find the target zone!

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L							D		D
50	31	61	25	53	72	15		31	

There were 54 spyglasses. 4 were used up. How many spyglasses are left?

Answer: → **L**

Quartermaster Pippin lined up 12 rows of 6 grappling claws. How many grappling claws in all?

Answer: → **A**

There were 74 rope coils. 21 were used up. How many rope coils are left?

Answer: → **H**

Quartermaster Pippin found 11 wind maps yesterday and 14 more today. How many wind maps in all?

Answer: → **T**

Quartermaster Pippin found 11 rope coils yesterday and 20 more today. How many rope coils in all?

Answer: → **E**

Quartermaster Pippin found 3 wind maps yesterday and 12 more today. How many wind maps in all?

Answer: → **N**

There were 100 wind maps. 39 were used up. How many wind maps are left?

Answer: → **F**

Scratch space:

CLUE 3 Addition

Let's tally up all the shiny star medals we found dropped along the cloud pathways.

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

T			T																
8608	3192	8119	8608	3192	6636	8119	3338	7835	3192	6636	4555	8119	6219	8119	6972	2470	3192	8119	3211

6252	2499	2499	5241	6636	3211	8941	6972	2499	2470	3211

$3004 + 5604 = \square \rightarrow \text{T}$	$4227 + 1992 = \square \rightarrow \text{R}$	$1789 + 1549 = \square \rightarrow \text{F}$
$3465 + 2787 = \square \rightarrow \text{L}$	$3282 + 5659 = \square \rightarrow \text{G}$	$5538 + 2581 = \square \rightarrow \text{E}$
$1287 + 1924 = \square \rightarrow \text{N}$	$2163 + 4473 = \square \rightarrow \text{I}$	$5164 + 2671 = \square \rightarrow \text{S}$
$1909 + 3332 = \square \rightarrow \text{K}$	$2039 + 1153 = \square \rightarrow \text{H}$	$2326 + 2229 = \square \rightarrow \text{V}$
$2701 + 4271 = \square \rightarrow \text{D}$	$1631 + 868 = \square \rightarrow \text{O}$	$1603 + 867 = \square \rightarrow \text{W}$

Scratch space:

CLUE 4

Subtraction

The getaway ship is dropping heavy cargo to fly faster. Figure out how much weight they lost.

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

A							A			A		A						
3061	4529	6931	6852	6852	5089	8585	3061	5089	5702	3061	5089	3061	1241	3415	4529	4529	6852	5702

		A							A			
8781	5089	3061	1241	6931	6852	6852	8585	6931	3061	5089	1832	4014

$4917 - 1856 = \boxed{} \rightarrow \boxed{A}$

$7104 - 173 = \boxed{} \rightarrow \boxed{R}$

$11577 - 2992 = \boxed{} \rightarrow \boxed{B}$

$10489 - 1708 = \boxed{} \rightarrow \boxed{O}$

$4196 - 2955 = \boxed{} \rightarrow \boxed{T}$

$7633 - 3619 = \boxed{} \rightarrow \boxed{H}$

$4477 - 2645 = \boxed{} \rightarrow \boxed{C}$

$7071 - 1369 = \boxed{} \rightarrow \boxed{D}$

$4376 - 961 = \boxed{} \rightarrow \boxed{U}$

$9337 - 4808 = \boxed{} \rightarrow \boxed{G}$

$9773 - 4684 = \boxed{} \rightarrow \boxed{N}$

$7295 - 443 = \boxed{} \rightarrow \boxed{E}$

Scratch space:

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

We captured some sky pirate recruits. Let's split them into equal groups for questioning.

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:

$72 \div 8 = \boxed{}$

$7 \div 1 = \boxed{}$

$6 \div 2 = \boxed{}$

$22 \div 2 = \boxed{}$

$48 \div 6 = \boxed{}$

$6 \div 6 = \boxed{}$

$45 \div 9 = \boxed{}$

$48 \div 8 = \boxed{}$

$30 \div 3 = \boxed{}$

$132 \div 11 = \boxed{}$

$14 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain glides in the Star Cutter, then blasts off with an Anchor Blaster.
2. The villain pilots the Gale Wing, then climbs up with a Rope Launcher.
3. The villain sails the Sun Sail, then grabs loot with a Magnetic Claw.
4. The villain flies the Cloud Glider, then swings away with a Sky Hook.
5. The villain steers the Storm Runner, then blasts off with an Anchor Blaster.
6. The villain sails the Sun Sail, then swings away with a Sky Hook.
7. The villain glides in the Star Cutter, then climbs up with a Rope Launcher.
8. The villain sails the Sun Sail, then blasts off with an Anchor Blaster.
9. The villain steers the Storm Runner, then swings away with a Sky Hook.
10. The villain glides in the Star Cutter, then grabs loot with a Magnetic Claw.
11. The villain sails the Sun Sail, then climbs up with a Rope Launcher.
12. The villain pilots the Gale Wing, then swings away with a Sky Hook.

Answer Key

Sky Pirates of the Cloud Archipelago

Culprit: Breezy Bella

Cloud Glider · Sky Hook · Left Handed · Green Bandana · Scared of Heights

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE THE ANCHOR BLASTER"

Round 226 to the nearest ten = 230 (T) · Round 4,618 to the nearest thousand = 5000 (B) · Round 49 to the nearest ten = 50 (I) · Round 291 to the nearest ten = 290 (V) · Round 93 to the nearest ten = 90 (U) · Round 522 to the nearest hundred = 500 (R) · Round 4,257 to the nearest hundred = 4300 (O) · Round 132 to the nearest ten = 130 (S) · Round 1,692 to the nearest thousand = 2000 (C) · Round 1,659 to the nearest hundred = 1700 (A) · Round 114 to the nearest ten = 110 (L) · Round 6,513 to the nearest thousand = 7000 (H) · Round 173 to the nearest ten = 170 (E) · Round 236 to the nearest hundred = 200 (N) · Round 874 to the nearest hundred = 900 (D)

Clue 2 (Word problems): "LEFT HANDED"

There were 54 spyglasses. 4 were used up. How many spyglasses are left? = 50 (L) · Quartermaster Pippin lined up 12 rows of 6 grappling claws. How many grappling claws in all? = 72 (A) · There were 74 rope coils. 21 were used up. How many rope coils are left? = 53 (H) · Quartermaster Pippin found 11 wind maps yesterday and 14 more today. How many wind maps in all? = 25 (T) · Quartermaster Pippin found 11 rope coils yesterday and 20 more today. How many rope coils in all? = 31 (E) · Quartermaster Pippin found 3 wind maps yesterday and 12 more today. How many wind maps in all? = 15 (N) · There were 100 wind maps. 39 were used up. How many wind maps are left? = 61 (F)

Clue 3 (Addition): "THE THIEF SHIVERED WHEN LOOKING DOWN"

$3004 + 5604 = 8608$ (T) · $4227 + 1992 = 6219$ (R) · $1789 + 1549 = 3338$ (F) · $3465 + 2787 = 6252$ (L) · $3282 + 5659 = 8941$ (G) · $5538 + 2581 = 8119$ (E) · $1287 + 1924 = 3211$ (N) · $2163 + 4473 = 6636$ (I) · $5164 + 2671 = 7835$ (S) · $1909 + 3332 = 5241$ (K) · $2039 + 1153 = 3192$ (H) · $2326 + 2229 = 4555$ (V) · $2701 + 4271 = 6972$ (D) · $1631 + 868 = 2499$ (O) · $1603 + 867 = 2470$ (W)

Clue 4 (Subtraction): "A GREEN BANDANA TUGGED ON A TREE BRANCH"

$4917 - 1856 = 3061$ (A) · $7104 - 173 = 6931$ (R) · $11577 - 2992 = 8585$ (B) · $10489 - 1708 = 8781$ (O) · $4196 - 2955 = 1241$ (T) · $7633 - 3619 = 4014$ (H) · $4477 - 2645 = 1832$ (C) · $7071 - 1369 = 5702$ (D) · $4376 - 961 = 3415$ (U) · $9337 - 4808 = 4529$ (G) · $9773 - 4684 = 5089$ (N) · $7295 - 443 = 6852$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Breezy Bella

$72 \div 8 = 9$ · $7 \div 1 = 7$ · $6 \div 2 = 3$ · $22 \div 2 = 11$ · $48 \div 6 = 8$ · $6 \div 6 = 1$ · $45 \div 9 = 5$ · $48 \div 8 = 6$ · $30 \div 3 = 10$ · $132 \div 11 = 12$ · $14 \div 7 = 2$