



The Floating Island Heist

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

Detective: _____ Date: _____

A sneaky Sky Pirate has stolen the Golden Compass from the Sky Port! Chief Archivist Barnaby needs your help. Look for clues left in the clouds to track down the thief before they reach the Edge of the World!

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	FLIGHT GEAR	SURVIVAL TOOL	GOGGLE TYPE	HAIR STYLE	SECRET WEAKNESS
Flint Falcon	rocket boots	grappling hook	wears gold goggles	cloud white hair	sneezes at feathers
Navigator Ned	jet pack	laser lasso	wears silver goggles	bright blue hair	scared of heights
Orbit Owen	rocket boots	net blaster	wears gold goggles	bright blue hair	scared of heights
Skybird Susan	propeller cap	net blaster	wears gold goggles	cloud white hair	scared of heights
Cloudy Cody	balloon belt	spark wand	wears silver goggles	spiky green hair	scared of heights
Breeze Betty	propeller cap	grappling hook	wears silver goggles	spiky green hair	sneezes at feathers
Pilot Piper	glider wings	wind fan	wears gold goggles	bright blue hair	tickled by bubbles
Aero Alice	jet pack	spark wand	wears silver goggles	spiky green hair	scared of heights
Radar Rachel	glider wings	grappling hook	wears gold goggles	spiky green hair	scared of heights
Beacon Bob	balloon belt	grappling hook	wears silver goggles	spiky green hair	scared of heights
Gale Gabriel	balloon belt	laser lasso	wears gold goggles	cloud white hair	sneezes at feathers
Skye High	rocket boots	grappling hook	wears silver goggles	spiky green hair	scared of heights
Rusty Rigging	balloon belt	wind fan	wears gold goggles	bright blue hair	tickled by bubbles
Altitude Al	propeller cap	wind fan	wears silver goggles	bright blue hair	scared of heights
Jet Jackson	glider wings	wind fan	wears silver goggles	cloud white hair	scared of heights
Captain Leo	glider wings	wind fan	wears gold goggles	bright blue hair	sneezes at feathers
Scout Sally	rocket boots	laser lasso	wears silver goggles	spiky green hair	sneezes at feathers
Nova Nellie	rocket boots	net blaster	wears silver goggles	spiky green hair	scared of heights
Penny Propeller	propeller cap	spark wand	wears silver goggles	bright blue hair	sneezes at feathers
Sunny Sarah	propeller cap	net blaster	wears silver goggles	spiky green hair	scared of heights
Windy Wendy	rocket boots	wind fan	wears gold goggles	bright blue hair	tickled by bubbles

CLUE 1 Rounding

The thief's altimeter is broken! It only shows altitude rounded to the nearest ten meters. Let's round these numbers to track their flight path.

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

T			T											T			
30	2300	900	30	2300	7000	900	1300	300	110	900	130	4300	110	30	370	130	900
T					T							T					
30	2300	900	4300	900	30	3000	700	2000	130	30	900	70	130				

Round 30 to the nearest ten → **T**

Round 718 to the nearest hundred → **L**

Round 68 to the nearest ten → **R**

Round 2,288 to the nearest hundred → **H**

Round 1,257 to the nearest hundred → **F**

Round 2,422 to the nearest thousand → **A**

Round 7,404 to the nearest thousand → **I**

Round 368 to the nearest ten → **U**

Round 112 to the nearest ten → **O**

Round 322 to the nearest hundred → **D**

Round 129 to the nearest ten → **S**

Round 4,342 to the nearest hundred → **N**

Round 913 to the nearest hundred → **E**

Round 3,348 to the nearest thousand → **B**

Scratch space:

CLUE 2

Multiplication facts (1-12)

The Sky Police found rows of supply crates left behind at the docks. If we multiply the rows, we can count the stolen supplies and find a clue!

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

W																	
27	16	25	30	18	121	7	44	72	100	11	16	108	2	100	64	44	44
30	121	32	35	16	25	100	30	64	32	72	121	2	7	30	6	99	

$9 \times 3 = \square \rightarrow \boxed{\text{W}}$

$6 \times 3 = \square \rightarrow \boxed{\text{U}}$

$7 \times 5 = \square \rightarrow \boxed{\text{H}}$

$1 \times 7 = \square \rightarrow \boxed{\text{D}}$

$3 \times 10 = \square \rightarrow \boxed{\text{O}}$

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

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

$9 \times 8 = \square \rightarrow \boxed{\text{I}}$

$11 \times 11 = \square \rightarrow \boxed{\text{N}}$

$9 \times 11 = \square \rightarrow \boxed{\text{K}}$

$3 \times 2 = \square \rightarrow \boxed{\text{C}}$

$10 \times 10 = \square \rightarrow \boxed{\text{L}}$

$5 \times 5 = \square \rightarrow \boxed{\text{F}}$

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

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

$11 \times 4 = \square \rightarrow \boxed{\text{S}}$

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

$1 \times 11 = \square \rightarrow \boxed{\text{V}}$

Scratch space:

CLUE 3

Subtraction

Some fuel was drained from the emergency balloon. Subtract the remaining fuel from the starting amount to see how much they took!

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

T																			
6106	5446	2781	7558	3938	5446	8809	8929	2781	6127	2781	1209	5155	5446	2781	7014				
													T	T					
5499	3159	3159	4405	8809	7014	8498	1209	3159	5155	7014	7006	6106	6106	5446	2781				
5499	7006	7014	1209																

$$7317 - 1211 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$10832 - 4705 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$9853 - 4698 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$4055 - 117 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$6716 - 1217 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$7669 - 4510 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$11276 - 2467 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$9896 - 2338 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$7520 - 3115 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$7628 - 2182 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$9573 - 644 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$7685 - 4904 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$11748 - 4734 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$10322 - 3316 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$11461 - 2963 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$2660 - 1451 = \boxed{} \rightarrow \boxed{\text{D}}$$

Scratch space:

CLUE 4 Addition

The harbor master has a list of cargo weights. Add these weights together to find the total load of the getaway ship.

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

S											S						S
3791	3401	6438	2883	6002	7347	5206	3138	3138	7173	3791	8234	5206	7241	7173	9394	3791	
5120	3138	5206	3138	7058	7241	8099	7347	7279	8234	6438	7173	8234	7279	3138	7173	3138	8234

$2506 + 1285 = \square \rightarrow \text{S}$	$4000 + 3173 = \square \rightarrow \text{N}$	$3486 + 4748 = \square \rightarrow \text{T}$
$3787 + 3454 = \square \rightarrow \text{A}$	$1799 + 1084 = \square \rightarrow \text{K}$	$3637 + 3642 = \square \rightarrow \text{H}$
$3731 + 3327 = \square \rightarrow \text{C}$	$1032 + 2106 = \square \rightarrow \text{E}$	$5472 + 3922 = \square \rightarrow \text{D}$
$2575 + 5524 = \square \rightarrow \text{U}$	$3507 + 1699 = \square \rightarrow \text{R}$	$4338 + 2100 = \square \rightarrow \text{I}$
$1656 + 1745 = \square \rightarrow \text{P}$	$2368 + 3634 = \square \rightarrow \text{Y}$	$2247 + 2873 = \square \rightarrow \text{W}$
$2526 + 4821 = \square \rightarrow \text{G}$		

Scratch space:

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

A box of energy snacks was split equally among the search party. Divide the snacks to see how many each explorer gets to keep up the chase.

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:

$45 \div 9 = \boxed{}$

$22 \div 11 = \boxed{}$

$10 \div 1 = \boxed{}$

$48 \div 12 = \boxed{}$

$49 \div 7 = \boxed{}$

$99 \div 9 = \boxed{}$

$9 \div 1 = \boxed{}$

$54 \div 9 = \boxed{}$

$12 \div 12 = \boxed{}$

$21 \div 7 = \boxed{}$

$72 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain zoomed away on rocket boots, then trapped the guard with a net blaster.
2. The villain blasted off with a jet pack, then blinded the cameras with a spark wand.
3. The villain blasted off with a jet pack, then trapped the guard with a net blaster.
4. The villain soared off on glider wings, then grabbed the compass with a laser lasso.
5. The villain zoomed away on rocket boots, then swung away using a grappling hook.
6. The villain soared off on glider wings, then swung away using a grappling hook.
7. The villain soared off on glider wings, then blew away the guards with a wind fan.
8. The villain floated away on a balloon belt, then blinded the cameras with a spark wand.
9. The villain hovered away with a propeller cap, then swung away using a grappling hook.
10. The villain floated away on a balloon belt, then swung away using a grappling hook.
11. The villain zoomed away on rocket boots, then blinded the cameras with a spark wand.
12. The villain blasted off with a jet pack, then swung away using a grappling hook.

Answer Key

The Floating Island Heist

Culprit: Cloudy Cody

balloon belt · spark wand · wears silver goggles · spiky green hair · scared of heights

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT USE THE NET BLASTERS"

Round 30 to the nearest ten = 30 (T) · Round 718 to the nearest hundred = 700 (L) · Round 68 to the nearest ten = 70 (R) · Round 2,288 to the nearest hundred = 2300 (H) · Round 1,257 to the nearest hundred = 1300 (F) · Round 2,422 to the nearest thousand = 2000 (A) · Round 7,404 to the nearest thousand = 7000 (I) · Round 368 to the nearest ten = 370 (U) · Round 112 to the nearest ten = 110 (O) · Round 322 to the nearest hundred = 300 (D) · Round 129 to the nearest ten = 130 (S) · Round 4,342 to the nearest hundred = 4300 (N) · Round 913 to the nearest hundred = 900 (E) · Round 3,348 to the nearest thousand = 3000 (B)

Clue 2 (Multiplication facts (1-12)): "WE FOUND SILVER GLASS ON THE FLOATING DOCK"

$9 \times 3 = 27$ (W) · $6 \times 3 = 18$ (U) · $7 \times 5 = 35$ (H) · $1 \times 7 = 7$ (D) · $3 \times 10 = 30$ (O) · $9 \times 12 = 108$ (R) · $1 \times 2 = 2$ (G) · $9 \times 8 = 72$ (I) · $11 \times 11 = 121$ (N) · $9 \times 11 = 99$ (K) · $3 \times 2 = 6$ (C) · $10 \times 10 = 100$ (L) · $5 \times 5 = 25$ (F) · $8 \times 8 = 64$ (A) · $4 \times 8 = 32$ (T) · $11 \times 4 = 44$ (S) · $4 \times 4 = 16$ (E) · $1 \times 11 = 11$ (V)

Clue 3 (Subtraction): "THEY SHIVERED WHEN LOOKING DOWN AT THE LAND"

$7317 - 1211 = 6106$ (T) · $10832 - 4705 = 6127$ (R) · $9853 - 4698 = 5155$ (W) · $4055 - 117 = 3938$ (S) · $6716 - 1217 = 5499$ (L) · $7669 - 4510 = 3159$ (O) · $11276 - 2467 = 8809$ (I) · $9896 - 2338 = 7558$ (Y) · $7520 - 3115 = 4405$ (K) · $7628 - 2182 = 5446$ (H) · $9573 - 644 = 8929$ (V) · $7685 - 4904 = 2781$ (E) · $11748 - 4734 = 7014$ (N) · $10322 - 3316 = 7006$ (A) · $11461 - 2963 = 8498$ (G) · $2660 - 1451 = 1209$ (D)

Clue 4 (Addition): "SPIKY GREEN STRANDS WERE CAUGHT IN THE NET"

$2506 + 1285 = 3791$ (S) · $4000 + 3173 = 7173$ (N) · $3486 + 4748 = 8234$ (T) · $3787 + 3454 = 7241$ (A) · $1799 + 1084 = 2883$ (K) · $3637 + 3642 = 7279$ (H) · $3731 + 3327 = 7058$ (C) · $1032 + 2106 = 3138$ (E) · $5472 + 3922 = 9394$ (D) · $2575 + 5524 = 8099$ (U) · $3507 + 1699 = 5206$ (R) · $4338 + 2100 = 6438$ (I) · $1656 + 1745 = 3401$ (P) · $2368 + 3634 = 6002$ (Y) · $2247 + 2873 = 5120$ (W) · $2526 + 4821 = 7347$ (G)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Cloudy Cody

$45 \div 9 = 5$ · $22 \div 11 = 2$ · $10 \div 1 = 10$ · $48 \div 12 = 4$ · $49 \div 7 = 7$ · $99 \div 9 = 11$ · $9 \div 1 = 9$ · $54 \div 9 = 6$ · $12 \div 12 = 1$ · $21 \div 7 = 3$ · $72 \div 6 = 12$