



The Great Sky-Island Chase

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

Detective: _____ **Date:** _____

A sneaky Sky Bandit has stolen the Golden Compass from the Chief Cartographer! We must search the floating docks, solve the math clues, and find the bandit before they sail their airship into the storm.

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 Bandit is _____

Possible suspects

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

NAME	ESCAPE STYLE	SPECIAL GEAR	HAND SIGN	HAIR COLOR	FUNNY WEAKNESS
Kira	cloud leaping	magnetic gloves	left handed	bright orange hair	silly whistles
Tucker	gear climbing	magnetic gloves	left handed	cloud white hair	sweet bananas
Sallie	propeller flying	gravity boots	right handed	bright orange hair	shiny bubbles
Ulysses	gear climbing	glowing goggles	right handed	bright orange hair	sweet bananas
Marco	wind gliding	magnetic gloves	left handed	bright orange hair	silly whistles
Amelia	cloud leaping	magnetic gloves	right handed	ocean blue hair	sweet bananas
Captain Kid	propeller flying	sparking boots	left handed	bright orange hair	silly whistles
Piper	wind gliding	copper spyglass	right handed	cloud white hair	shiny bubbles
Drake	rope swinging	copper spyglass	left handed	ocean blue hair	sweet bananas
Ella	rope swinging	glowing goggles	left handed	cloud white hair	silly whistles
Zelda	wind gliding	copper spyglass	left handed	bright orange hair	sweet bananas
Flynn	rope swinging	magnetic gloves	left handed	cloud white hair	shiny bubbles
Quincy	cloud leaping	sparking boots	right handed	cloud white hair	shiny bubbles
Ranger	gear climbing	glowing goggles	right handed	cloud white hair	sweet bananas
Nellie	wind gliding	magnetic gloves	left handed	bright orange hair	sweet bananas
Jack	rope swinging	copper spyglass	right handed	cloud white hair	shiny bubbles
Val	rope swinging	magnetic gloves	left handed	cloud white hair	sweet bananas
Gulliver	gear climbing	gravity boots	left handed	cloud white hair	shiny bubbles
Leo	cloud leaping	glowing goggles	right handed	bright orange hair	silly whistles
Wyatt	rope swinging	glowing goggles	right handed	cloud white hair	shiny bubbles
Otis	propeller flying	gravity boots	right handed	cloud white hair	shiny bubbles

CLUE 1 Rounding

An old wind-radar caught a fuzzy signal of the escape route. The radar only shows numbers rounded to the nearest ten.

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

T									T									T
4000	70	90	2000	900	200	30	60	4000	30	8000	90	9000	200	8000	4000			
7000	90	900	3000	9000	700	900	3000	6000	60	200	80	2000	8000	8000	4000	9000		

Round 3,573 to the nearest thousand → **T**

Round 8,553 to the nearest thousand → **S**

Round 67 to the nearest ten → **H**

Round 215 to the nearest hundred → **N**

Round 8,317 to the nearest thousand → **O**

Round 90 to the nearest ten → **E**

Round 921 to the nearest hundred → **A**

Round 27 to the nearest ten → **D**

Round 84 to the nearest ten → **G**

Round 58 to the nearest ten → **I**

Round 7,053 to the nearest thousand → **W**

Round 748 to the nearest hundred → **P**

Round 2,290 to the nearest thousand → **B**

Round 3,327 to the nearest thousand → **R**

Round 6,253 to the nearest thousand → **K**

Scratch space:

CLUE 2 Addition

We found a pile of dropped gear on the wooden dock. Let us add up all the brass bolts we found to see where they came from.

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

T													T							
475	621	555	227	256	984	529	555	555	255	555	534	475	621	555	719	377	590	555		
		T		T							T									
672	547	475	621	475	621	555	719	547	792	621	475	621	816	808	534					

$166 + 309 = \square \rightarrow \mathbf{T}$	$539 + 269 = \square \rightarrow \mathbf{N}$	$493 + 226 = \square \rightarrow \mathbf{R}$
$258 + 534 = \square \rightarrow \mathbf{G}$	$322 + 662 = \square \rightarrow \mathbf{Q}$	$336 + 254 = \square \rightarrow \mathbf{P}$
$236 + 436 = \square \rightarrow \mathbf{W}$	$421 + 200 = \square \rightarrow \mathbf{H}$	$157 + 70 = \square \rightarrow \mathbf{Y}$
$215 + 314 = \square \rightarrow \mathbf{U}$	$146 + 110 = \square \rightarrow \mathbf{S}$	$167 + 210 = \square \rightarrow \mathbf{O}$
$477 + 339 = \square \rightarrow \mathbf{A}$	$232 + 315 = \square \rightarrow \mathbf{I}$	$189 + 345 = \square \rightarrow \mathbf{D}$
$85 + 170 = \square \rightarrow \mathbf{Z}$	$301 + 254 = \square \rightarrow \mathbf{E}$	

Scratch space:

CLUE 3
Subtraction

The cartographer has a secret lock on the chest. To open it, we must find the difference between the wind speeds on our map.

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

T																
388	585	289	364	650	253	289	289	133	289	708	462	585	289	253	462	289
465	542	289	462	650	585	563	253	364	465	866	465	465	542	289	650	

$533 - 145 = \square \rightarrow \boxed{\text{T}}$

$759 - 51 = \square \rightarrow \boxed{\text{D}}$

$598 - 56 = \square \rightarrow \boxed{\text{L}}$

$584 - 119 = \square \rightarrow \boxed{\text{B}}$

$494 - 241 = \square \rightarrow \boxed{\text{N}}$

$310 - 21 = \square \rightarrow \boxed{\text{E}}$

$654 - 290 = \square \rightarrow \boxed{\text{Y}}$

$956 - 371 = \square \rightarrow \boxed{\text{H}}$

$828 - 366 = \square \rightarrow \boxed{\text{W}}$

$503 - 370 = \square \rightarrow \boxed{\text{Z}}$

$869 - 219 = \square \rightarrow \boxed{\text{S}}$

$900 - 34 = \square \rightarrow \boxed{\text{U}}$

$702 - 139 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The airship hangar has several rows of flying machines. We need to multiply the rows to count the total wings.

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

W																		
120	5	56	48	96	25	84	132	7	48	25	8	14	45	5	30	5	48	56
					W													
30	7	48	96	84	120	42	45	121	5	42	132	45	16					

$12 \times 10 = \square \rightarrow \boxed{W}$

$7 \times 6 = \square \rightarrow \boxed{H}$

$3 \times 10 = \square \rightarrow \boxed{C}$

$11 \times 12 = \square \rightarrow \boxed{A}$

$1 \times 5 = \square \rightarrow \boxed{E}$

$8 \times 1 = \square \rightarrow \boxed{G}$

$5 \times 9 = \square \rightarrow \boxed{I}$

$2 \times 7 = \square \rightarrow \boxed{P}$

$8 \times 12 = \square \rightarrow \boxed{U}$

$2 \times 8 = \square \rightarrow \boxed{R}$

$6 \times 8 = \square \rightarrow \boxed{O}$

$11 \times 11 = \square \rightarrow \boxed{T}$

$5 \times 5 = \square \rightarrow \boxed{N}$

$12 \times 7 = \square \rightarrow \boxed{D}$

$7 \times 8 = \square \rightarrow \boxed{F}$

$7 \times 1 = \square \rightarrow \boxed{L}$

Scratch space:

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

We have a box of energy crystals to share among our crew. We must divide them equally to power up our tracker.

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:

$30 \div 5 = \boxed{}$

$50 \div 10 = \boxed{}$

$18 \div 2 = \boxed{}$

$60 \div 6 = \boxed{}$

$40 \div 5 = \boxed{}$

$84 \div 7 = \boxed{}$

$44 \div 11 = \boxed{}$

$11 \div 1 = \boxed{}$

$7 \div 7 = \boxed{}$

$15 \div 5 = \boxed{}$

$56 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain glides through the wind, then climbs with magnetic gloves.
2. The villain flies with a mini propeller, then activates heavy gravity boots.
3. The villain leaps from cloud to cloud, then peers through a copper spyglass.
4. The villain swings on a long rope, then activates heavy gravity boots.
5. The villain glides through the wind, then peers through a copper spyglass.
6. The villain swings on a long rope, then peers through a copper spyglass.
7. The villain leaps from cloud to cloud, then turns on the sparking boots.
8. The villain flies with a mini propeller, then climbs with magnetic gloves.
9. The villain swings on a long rope, then uses glowing goggles to see.
10. The villain glides through the wind, then turns on the sparking boots.
11. The villain leaps from cloud to cloud, then activates heavy gravity boots.
12. The villain climbs up the brass gears, then peers through a copper spyglass.

Answer Key

The Great Sky-Island Chase

Culprit: Otis

propeller flying · gravity boots · right handed · cloud white hair · shiny bubbles

Trail: Start 21 → Clue 1 19 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE BANDIT DOES NOT WEAR SPARKING BOOTS"

Round 3,573 to the nearest thousand = 4000 (T) · Round 8,553 to the nearest thousand = 9000 (S) · Round 67 to the nearest ten = 70 (H) · Round 215 to the nearest hundred = 200 (N) · Round 8,317 to the nearest thousand = 8000 (O) · Round 90 to the nearest ten = 90 (E) · Round 921 to the nearest hundred = 900 (A) · Round 27 to the nearest ten = 30 (D) · Round 84 to the nearest ten = 80 (G) · Round 58 to the nearest ten = 60 (I) · Round 7,053 to the nearest thousand = 7000 (W) · Round 748 to the nearest hundred = 700 (P) · Round 2,290 to the nearest thousand = 2000 (B) · Round 3,327 to the nearest thousand = 3000 (R) · Round 6,253 to the nearest thousand = 6000 (K)

Clue 2 (Addition): "THEY SQUEEZED THE ROPE WITH THE RIGHT HAND"

$166 + 309 = 475$ (T) · $539 + 269 = 808$ (N) · $493 + 226 = 719$ (R) · $258 + 534 = 792$ (G) · $322 + 662 = 984$ (Q) · $336 + 254 = 590$ (P) · $236 + 436 = 672$ (W) · $421 + 200 = 621$ (H) · $157 + 70 = 227$ (Y) · $215 + 314 = 529$ (U) · $146 + 110 = 256$ (S) · $167 + 210 = 377$ (O) · $477 + 339 = 816$ (A) · $232 + 315 = 547$ (I) · $189 + 345 = 534$ (D) · $85 + 170 = 255$ (Z) · $301 + 254 = 555$ (E)

Clue 3 (Subtraction): "THEY SNEEZED WHEN WE BLEW SHINY BUBBLES"

$533 - 145 = 388$ (T) · $759 - 51 = 708$ (D) · $598 - 56 = 542$ (L) · $584 - 119 = 465$ (B) · $494 - 241 = 253$ (N) · $310 - 21 = 289$ (E) · $654 - 290 = 364$ (Y) · $956 - 371 = 585$ (H) · $828 - 366 = 462$ (W) · $503 - 370 = 133$ (Z) · $869 - 219 = 650$ (S) · $900 - 34 = 866$ (U) · $702 - 139 = 563$ (I)

Clue 4 (Multiplication facts (1-12)): "WE FOUND A LONG PIECE OF CLOUD WHITE HAIR"

$12 \times 10 = 120$ (W) · $7 \times 6 = 42$ (H) · $3 \times 10 = 30$ (C) · $11 \times 12 = 132$ (A) · $1 \times 5 = 5$ (E) · $8 \times 1 = 8$ (G) · $5 \times 9 = 45$ (I) · $2 \times 7 = 14$ (P) · $8 \times 12 = 96$ (U) · $2 \times 8 = 16$ (R) · $6 \times 8 = 48$ (O) · $11 \times 11 = 121$ (T) · $5 \times 5 = 25$ (N) · $12 \times 7 = 84$ (D) · $7 \times 8 = 56$ (F) · $7 \times 1 = 7$ (L)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Otis

$30 \div 5 = 6$ · $50 \div 10 = 5$ · $18 \div 2 = 9$ · $60 \div 6 = 10$ · $40 \div 5 = 8$ · $84 \div 7 = 12$ · $44 \div 11 = 4$ · $11 \div 1 = 11$ · $7 \div 7 = 1$ · $15 \div 5 = 3$ · $56 \div 8 = 7$