



Sky-Scurry Mystery

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

Detective: _____ **Date:** _____

Someone stole the Golden Propeller Trophy from the Cloud Harbor clubhouse! The culprit fled on a sky-scooter. We must check the flight logs to find them!

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 Thief is _____

Possible suspects

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

NAME	AIRSHIP PILOT GEAR	FAVORITE GADGET	STEERING HAND	HAIR COLOR	SNACK WEAKNESS
Arthur King	Golden Compass	Flashlight Glove	Left-Handed Steerer	Windblown Blue Hair	Maple Pancakes
Amelia Sky	Cloud Whistle	Grappling Hook	Right-Handed Steerer	Curly Purple Hair	Berry Soda Pop
Charles Wind	Brass Spyglass	Pocket Glider	Left-Handed Steerer	Windblown Blue Hair	Sour Apple Drops
Wendy Wing	Map of the Winds	Pocket Glider	Left-Handed Steerer	Curly Purple Hair	Sour Apple Drops
Peter Pan	Cloud Whistle	Smoke Bomb	Left-Handed Steerer	Windblown Blue Hair	Berry Soda Pop
Guy Jetstream	Map of the Winds	Smoke Bomb	Right-Handed Steerer	Spiky Orange Hair	Berry Soda Pop
Bessie Flyer	Golden Compass	Smoke Bomb	Right-Handed Steerer	Spiky Orange Hair	Berry Soda Pop
Mae Orbit	Cloud Whistle	Pocket Glider	Right-Handed Steerer	Curly Purple Hair	Sour Apple Drops
Captain Barnaby	Brass Spyglass	Smoke Bomb	Right-Handed Steerer	Curly Purple Hair	Sour Apple Drops
Valentina Gale	Golden Compass	Grappling Hook	Left-Handed Steerer	Spiky Orange Hair	Sour Apple Drops
Henry Helm	Map of the Winds	Grappling Hook	Left-Handed Steerer	Spiky Orange Hair	Maple Pancakes
Fiona Feather	Map of the Winds	Flashlight Glove	Right-Handed Steerer	Windblown Blue Hair	Sour Apple Drops
Wilbur Cloud	Golden Compass	Pocket Glider	Right-Handed Steerer	Curly Purple Hair	Sour Apple Drops
Clara Map	Map of the Winds	Smoke Bomb	Left-Handed Steerer	Curly Purple Hair	Sour Apple Drops
Orville Cloud	Cloud Whistle	Net Launcher	Right-Handed Steerer	Spiky Orange Hair	Maple Pancakes
Buzz Comet	Golden Compass	Pocket Glider	Right-Handed Steerer	Spiky Orange Hair	Sour Apple Drops
Robin Forest	Brass Spyglass	Flashlight Glove	Left-Handed Steerer	Windblown Blue Hair	Maple Pancakes
Captain Hook	Brass Spyglass	Flashlight Glove	Right-Handed Steerer	Windblown Blue Hair	Sour Apple Drops
Marco Compass	Brass Spyglass	Smoke Bomb	Left-Handed Steerer	Curly Purple Hair	Berry Soda Pop
Jacques Deep	Cloud Whistle	Net Launcher	Right-Handed Steerer	Curly Purple Hair	Sour Apple Drops
Jeanne Wave	Golden Compass	Flashlight Glove	Right-Handed Steerer	Curly Purple Hair	Sour Apple Drops

CLUE 1

We scan the flying radar screen. The distant blips only show speed rounded to the nearest ten.

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

1700 430 1300 2300 290 200 130 9000 1700 130 90 1300 5000 200 90 1700 30 5000 1300

290 5000 700 90 900 1300 2300 90 700 2300

Round 1,658 to the nearest hundred

A diagram illustrating a transition. On the left is a simple rectangular box. An arrow points from this box to a second box on the right. The second box is identical in shape but has a thicker border and contains the capital letter 'T' in the center.

Round 220 to the nearest hundred

A diagram showing a box with an arrow pointing to a box labeled 'N'.

Round 130 to the nearest ten

 $\rightarrow$ 

Round 704 to the nearest hundred

A diagram showing a transformation. On the left is a simple rectangular box. An arrow points from this box to another box on the right. The box on the right is labeled with the letter 'M' in a bold, sans-serif font.

Round 27 to the nearest ten

A diagram illustrating a transition. On the left is an empty rounded rectangle. An arrow points to the right, where a rounded rectangle contains the letter 'U'.

Round 2,335 to the nearest hundred

A diagram showing a box with a question mark pointing to a box with the letter B.

Round 4,790 to the nearest thousand

A diagram showing a transformation. On the left is a simple rectangular box. An arrow points from this box to another rectangular box on the right. Inside the second box is the letter 'S'.

Round 881 to the nearest hundred



Round 427 to the nearest ten

A diagram illustrating a transition. On the left is a thin-bordered box. An arrow points to the right, where a thick-bordered box contains the letter 'H'.

Round 93 to the nearest ten



Round 293 to the nearest ten



Round 1,253 to the nearest hundred

Round 9,271 to the nearest thousand

A diagram showing a transition from an empty box to a box containing the letter 'I'. The first box is empty, followed by a right-pointing arrow, and then a second box containing the letter 'I'.

Scratch space:

CLUE 2 Addition

To calculate the fuel used, we count the extra gas cans stacked up in the corner.

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

T															T		
5660	4450	8999	4804	2807	2497	2439	2439	7064	9828	5136	6286	9696	8742	5660			
	T							T		T					T		
4804	5660	8999	8999	2439	4804	3547	8742	5660	4450	5660	4450	8999	2439	8742	8533	4450	5660
4450	5136	6286	9696														

2510 + 3150 = → T	1562 + 877 = → R	4365 + 2699 = → Y
1657 + 1150 = → C	5182 + 4514 = → D	2199 + 2937 = → A
1937 + 1610 = → W	2827 + 1623 = → H	5765 + 2977 = → I
4258 + 4741 = → E	4009 + 4524 = → G	2902 + 1902 = → S
2004 + 4282 = → N	4969 + 4859 = → B	1700 + 797 = → U

Scratch space:

CLUE 3

Subtraction

We inspect the flight logs and take away the regular routes to see what is left.

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

S														
3365	3043	4191	4267	7943	4267	5198	5198	3649	7949	2793	3649	8266	6113	
							S							
1487	4267	2793	2397	2397	5198	4267	3365	1487	5198	4267	5198	5531	3649	3216 4516 5198
7949	2793	7507	5531	3649										

$5358 - 1993 = \square \rightarrow \text{S}$

$8844 - 4577 = \square \rightarrow \text{R}$

$9259 - 4061 = \square \rightarrow \text{E}$

$10599 - 2333 = \square \rightarrow \text{D}$

$4036 - 1243 = \square \rightarrow \text{A}$

$5159 - 1510 = \square \rightarrow \text{N}$

$8162 - 655 = \square \rightarrow \text{B}$

$7611 - 2080 = \square \rightarrow \text{I}$

$2687 - 1200 = \square \rightarrow \text{W}$

$7777 - 3586 = \square \rightarrow \text{U}$

$7008 - 4611 = \square \rightarrow \text{P}$

$7373 - 1260 = \square \rightarrow \text{Y}$

$5902 - 1386 = \square \rightarrow \text{H}$

$4910 - 1694 = \square \rightarrow \text{T}$

$11375 - 3426 = \square \rightarrow \text{C}$

$6820 - 3777 = \square \rightarrow \text{O}$

$8715 - 772 = \square \rightarrow \text{G}$

Scratch space:

CLUE 4

The cargo bay has crates arranged in equal rows. We multiply the boxes to count the stolen gears.

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

A 2x15 grid of boxes. The first row contains the following numbers from left to right: 72, 108, 54, 60, 36, 7, 81, 6, 4, 36, 9, 14, 132, 14, 60, 72, 1, 55. The second row contains the following numbers from left to right: 11, 72, 132, 108, 72, 54, 20, 8, 14, 6, 1, 14, 8, 9, 5, 6, 27. In the first row, the box containing '72' at the first position and the box containing '72' at the 16th position are highlighted with an orange background and an orange letter 'A' in the top-left corner. In the second row, the box containing '72' at the second position and the box containing '72' at the fifth position are highlighted with an orange background and an orange letter 'A' in the top-left corner.

$12 \times 6 = \square \rightarrow \mathbf{A}$

$1 \times 7 = \square \rightarrow \boxed{\mathbf{Y}}$

$9 \times 3 = \square \rightarrow \mathbf{P}$

$1 \times 5 = \square \rightarrow \boxed{\mathbf{Z}}$

$$9 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$2 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{T}}$$

$3 \times 12 = \boxed{} \rightarrow \boxed{\text{L}}$

$11 \times 5 = \boxed{} \rightarrow \boxed{\text{D}}$

$$11 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$1 \times 8 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$1 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{N}}$$

$$9 \times 6 = \boxed{} \rightarrow \boxed{\mathbf{U}}$$

$9 \times 12 = \boxed{} \rightarrow \boxed{\text{C}}$

$1 \times 9 = \square \rightarrow \boxed{\mathbf{E}}$

$$2 \times 3 = \boxed{} \rightarrow \boxed{1}$$

$$12 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$$4 \times 1 = \boxed{} \rightarrow \boxed{0}$$

$$1 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$4 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

Scratch space:

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

We divide the remaining pirate snacks equally among the crew to keep everyone happy.

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:

$21 \div 7 = \boxed{}$

$70 \div 7 = \boxed{}$

$32 \div 4 = \boxed{}$

$70 \div 10 = \boxed{}$

$108 \div 9 = \boxed{}$

$30 \div 6 = \boxed{}$

$12 \div 12 = \boxed{}$

$108 \div 12 = \boxed{}$

$36 \div 9 = \boxed{}$

$99 \div 9 = \boxed{}$

$54 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain steers using a golden compass, then escapes in a smelly smoke bomb.
2. The villain blows a shiny cloud whistle, then fires a tangled net launcher.
3. The villain steers using a golden compass, then launches a pocket glider.
4. The villain checks their map of the winds, then swings away on a grappling hook.
5. The villain winds up their propeller, then launches a pocket glider.
6. The villain looks through a brass spyglass, then launches a pocket glider.
7. The villain blows a shiny cloud whistle, then lights the way with a flashlight glove.
8. The villain steers using a golden compass, then lights the way with a flashlight glove.
9. The villain checks their map of the winds, then launches a pocket glider.
10. The villain blows a shiny cloud whistle, then launches a pocket glider.
11. The villain blows a shiny cloud whistle, then escapes in a smelly smoke bomb.
12. The villain checks their map of the winds, then lights the way with a flashlight glove.

Answer Key

Sky-Scurry Mystery

Culprit: Jacques Deep

Cloud Whistle · Net Launcher · Right-Handed Steerer · Curly Purple Hair · Sour Apple Drops

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE BANDIT DOES NOT USE A SMOKE BOMB"

Round 1,658 to the nearest hundred = 1700 (T) · Round 220 to the nearest hundred = 200 (N) · Round 130 to the nearest ten = 130 (D) · Round 704 to the nearest hundred = 700 (M) · Round 27 to the nearest ten = 30 (U) · Round 2,335 to the nearest hundred = 2300 (B) · Round 4,790 to the nearest thousand = 5000 (S) · Round 881 to the nearest hundred = 900 (K) · Round 427 to the nearest ten = 430 (H) · Round 93 to the nearest ten = 90 (O) · Round 293 to the nearest ten = 290 (A) · Round 1,253 to the nearest hundred = 1300 (E) · Round 9,271 to the nearest thousand = 9000 (I)

Clue 2 (Addition): "THE SCURRY BANDIT STEERS WITH THE RIGHT HAND"

2510 + 3150 = 5660 (T) · 1562 + 877 = 2439 (R) · 4365 + 2699 = 7064 (Y) · 1657 + 1150 = 2807 (C) · 5182 + 4514 = 9696 (D) · 2199 + 2937 = 5136 (A) · 1937 + 1610 = 3547 (W) · 2827 + 1623 = 4450 (H) · 5765 + 2977 = 8742 (I) · 4258 + 4741 = 8999 (E) · 4009 + 4524 = 8533 (G) · 2902 + 1902 = 4804 (S) · 2004 + 4282 = 6286 (N) · 4969 + 4859 = 9828 (B) · 1700 + 797 = 2497 (U)

Clue 3 (Subtraction): "SOUR GREEN CANDY WRAPPERS WERE IN THE CABIN"

5358 - 1993 = 3365 (S) · 8844 - 4577 = 4267 (R) · 9259 - 4061 = 5198 (E) · 10599 - 2333 = 8266 (D) · 4036 - 1243 = 2793 (A) · 5159 - 1510 = 3649 (N) · 8162 - 655 = 7507 (B) · 7611 - 2080 = 5531 (I) · 2687 - 1200 = 1487 (W) · 7777 - 3586 = 4191 (U) · 7008 - 4611 = 2397 (P) · 7373 - 1260 = 6113 (Y) · 5902 - 1386 = 4516 (H) · 4910 - 1694 = 3216 (T) · 11375 - 3426 = 7949 (C) · 6820 - 3777 = 3043 (O) · 8715 - 772 = 7943 (G)

Clue 4 (Multiplication facts (1-12)): "A CURLY VIOLET STRAND WAS CAUGHT IN THE ZIP"

12 × 6 = 72 (A) · 1 × 7 = 7 (Y) · 9 × 3 = 27 (P) · 1 × 5 = 5 (Z) · 9 × 9 = 81 (V) · 2 × 7 = 14 (T) · 3 × 12 = 36 (L) · 11 × 5 = 55 (D) · 11 × 12 = 132 (S) · 1 × 8 = 8 (H) · 1 × 1 = 1 (N) · 9 × 6 = 54 (U) · 9 × 12 = 108 (C) · 1 × 9 = 9 (E) · 2 × 3 = 6 (I) · 12 × 5 = 60 (R) · 4 × 1 = 4 (O) · 1 × 11 = 11 (W) · 4 × 5 = 20 (G)

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

21 ÷ 7 = 3 · 70 ÷ 7 = 10 · 32 ÷ 4 = 8 · 70 ÷ 10 = 7 · 108 ÷ 9 = 12 · 30 ÷ 6 = 5 · 12 ÷ 12 = 1 · 108 ÷ 12 = 9 · 36 ÷ 9 = 4 · 99 ÷ 9 = 11 · 54 ÷ 9 = 6