The Great Ice Floe Heist

Grade 3 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Someone snuck into the Frosty Bay Wildlife Station and swiped the sacred golden fish statue from the pup nursery! Check the clues to identify the sneaky seal bandit.

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 Ice Raider is _____

Possible suspects

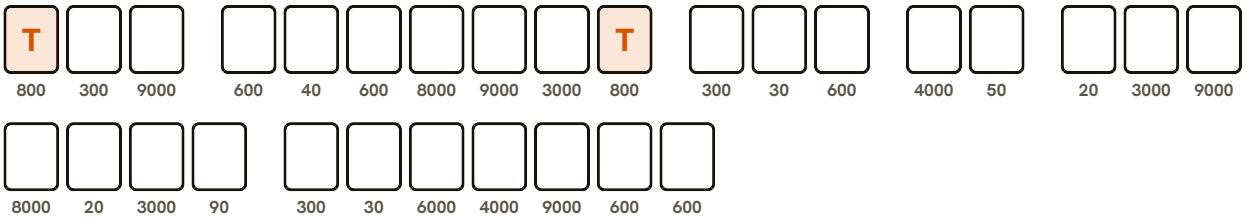
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	ICE SKILL	GEAR	DOMINANT FLIPPER	FUR PATTERN	DISTRACTION
Nanuq Nick	Blizzard Whistling	Snow Tracker Map	Left Flipper	Spotted Pelt	Whistle Sounds
Polar Pete	Ice Sliding	Thermal Goggles	Right Flipper	Spotted Pelt	Whistle Sounds
Barnaby Blue	Ice Sliding	Frost Whistle	Right Flipper	Spotted Pelt	Bright Lanterns
Glacier Gabe	Deep Diving	Beacon Collar	Right Flipper	Fluffy White Fur	Bright Lanterns
Iceberg Ivy	Deep Diving	Frost Whistle	Right Flipper	Spotted Pelt	Whistle Sounds
Crisp Chris	Glacier Climbing	Beacon Collar	Right Flipper	Silver Coat	Bright Lanterns
Shelly Shine	Blizzard Whistling	Ice Pick Harness	Right Flipper	Silver Coat	Herring Snacks
Salty Sam	Blizzard Whistling	Frost Whistle	Right Flipper	Spotted Pelt	Herring Snacks
Waddles White	Snow Tunneling	Thermal Goggles	Right Flipper	Silver Coat	Herring Snacks
Flipper Frank	Glacier Climbing	Beacon Collar	Right Flipper	Spotted Pelt	Herring Snacks
Skipper Sky	Snow Tunneling	Ice Pick Harness	Right Flipper	Spotted Pelt	Whistle Sounds
Snoopy Seal	Deep Diving	Thermal Goggles	Right Flipper	Spotted Pelt	Bright Lanterns
Drift Dave	Snow Tunneling	Thermal Goggles	Right Flipper	Spotted Pelt	Whistle Sounds
Tundra Tim	Glacier Climbing	Frost Whistle	Right Flipper	Silver Coat	Whistle Sounds
Shiver Mia	Snow Tunneling	Frost Whistle	Right Flipper	Fluffy White Fur	Bright Lanterns
Blizzard Bob	Deep Diving	Snow Tracker Map	Right Flipper	Spotted Pelt	Herring Snacks
Coral Chloe	Deep Diving	Ice Pick Harness	Left Flipper	Silver Coat	Herring Snacks
Penny Pup	Ice Sliding	Thermal Goggles	Right Flipper	Silver Coat	Herring Snacks
Pippin Paws	Snow Tunneling	Beacon Collar	Right Flipper	Fluffy White Fur	Bright Lanterns
Harbor Hank	Ice Sliding	Beacon Collar	Left Flipper	Spotted Pelt	Herring Snacks
Finnegan Frost	Deep Diving	Beacon Collar	Right Flipper	Spotted Pelt	Whistle Sounds

CLUE 1 Rounding

A sensor on the ice pack only gives rounded numbers for safety, so we must round the distance readings to trace the bandit.

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



Round 809 to the nearest hundred ☐ → T

Round 600 to the nearest hundred ☐ → S

Round 5,651 to the nearest thousand ☐ → R

Round 8,142 to the nearest thousand ☐ → P

Round 52 to the nearest ten ☐ → O

Round 29 to the nearest ten ☐ → A

Round 8,987 to the nearest thousand ☐ → E

Round 94 to the nearest ten ☐ → K

Round 255 to the nearest hundred ☐ → H

Round 36 to the nearest ten ☐ → U

Round 4,028 to the nearest thousand ☐ → N

Round 16 to the nearest ten ☐ → I

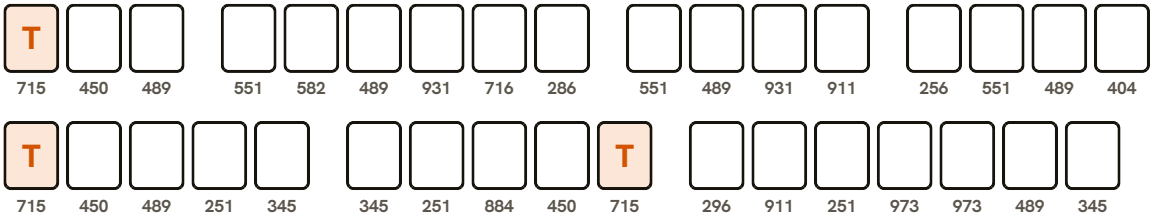
Round 3,248 to the nearest thousand ☐ → C

Scratch space:

CLUE 2 Addition

We gathered all the fish ration vouchers left along the drift ice and need to add them up to find the next lead.

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



463 + 252 = ☐ → T

323 + 166 = ☐ → E

174 + 171 = ☐ → R

235 + 215 = ☐ → H

400 + 182 = ☐ → N

338 + 593 = ☐ → A

128 + 276 = ☐ → D

485 + 399 = ☐ → G

176 + 110 = ☐ → Y

147 + 104 = ☐ → I

625 + 348 = ☐ → P

336 + 380 = ☐ → K

343 + 568 = ☐ → L

214 + 337 = ☐ → S

88 + 168 = ☐ → U

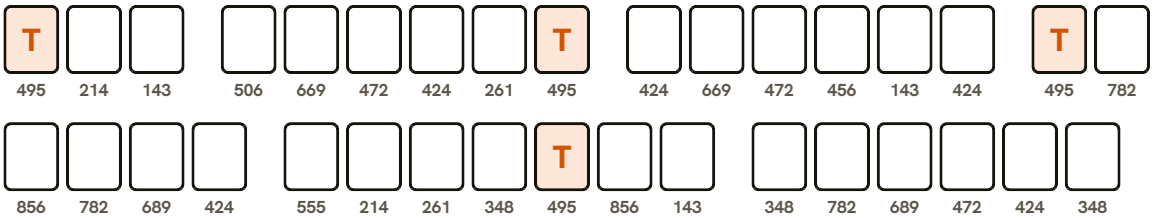
122 + 174 = ☐ → F

Scratch space:

CLUE 3 Subtraction

> Comparing the total number of rescue sleds before and after the commotion shows how many supplies were moved.

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



513 - 18 = ☐ → T

756 - 87 = ☐ → A

1061 - 205 = ☐ → L

770 - 346 = ☐ → D

1052 - 363 = ☐ → U

393 - 250 = ☐ → E

664 - 109 = ☐ → W

320 - 59 = ☐ → I

572 - 100 = ☐ → N

338 - 124 = ☐ → H

586 - 130 = ☐ → C

1039 - 257 = ☐ → O

578 - 72 = ☐ → B

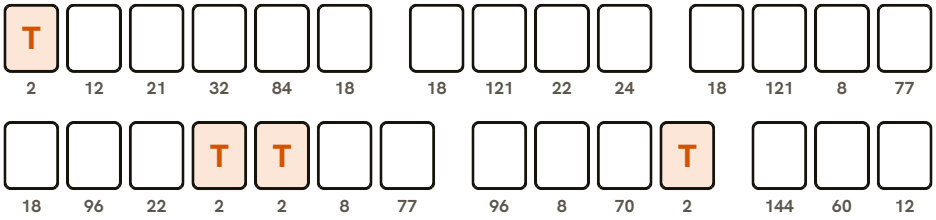
718 - 370 = ☐ → S

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The guard seals logged equal rows of ice crates in the storage cave, so multiplying gives us the total count.

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



1 × 2 = ☐ → T	7 × 3 = ☐ → A	11 × 2 = ☐ → O	6 × 3 = ☐ → S
12 × 5 = ☐ → U	4 × 6 = ☐ → W	11 × 11 = ☐ → H	
12 × 7 = ☐ → K	7 × 11 = ☐ → D	8 × 4 = ☐ → C	
12 × 12 = ☐ → F	2 × 4 = ☐ → E	12 × 8 = ☐ → P	
6 × 2 = ☐ → R	7 × 10 = ☐ → L		

Scratch space:

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

> To split the recovered pup blankets equally among five rescue shelters, division reveals our 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:

100 ÷ 10 = ☐	24 ÷ 8 = ☐	20 ÷ 5 = ☐	20 ÷ 10 = ☐	144 ÷ 12 = ☐
99 ÷ 9 = ☐	5 ÷ 1 = ☐	9 ÷ 9 = ☐	18 ÷ 2 = ☐	54 ÷ 9 = ☐
32 ÷ 4 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain slid across the frozen bay, then flashed a beacon collar light.
2. The villain climbed up the towering glacier, then checked a snow tracker map.
3. The villain tunneled straight through snowdrifts, then adjusted their thermal goggles.
4. The villain slid across the frozen bay, then adjusted their thermal goggles.
5. The villain tunneled straight through snowdrifts, then flashed a beacon collar light.
6. The villain dived deep beneath the ice pack, then latched an ice pick harness.
7. The villain dived deep beneath the ice pack, then blew into a frost whistle.
8. The villain slid across the frozen bay, then blew into a frost whistle.
9. The villain dived deep beneath the ice pack, then checked a snow tracker map.
10. The villain dived deep beneath the ice pack, then flashed a beacon collar light.
11. The villain climbed up the towering glacier, then latched an ice pick harness.
12. The villain whistled an icy arctic breeze, then latched an ice pick harness.

TEACHER / PARENT

Answer Key

The Great Ice Floe Heist

Culprit: Iceberg Ivy

Deep Diving · Frost Whistle · Right Flipper · Spotted Pelt · Whistle Sounds

Trail: Start 21 → Clue 1 18 → Clue 2 16 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SUSPECT HAS NO ICE PICK HARNESS"

Round 809 to the nearest hundred = 800 (T) · Round 600 to the nearest hundred = 600 (S) · Round 5,651 to the nearest thousand = 6000 (R) · Round 8,142 to the nearest thousand = 8000 (P) · Round 52 to the nearest ten = 50 (O) · Round 29 to the nearest ten = 30 (A) · Round 8,987 to the nearest thousand = 9000 (E) · Round 94 to the nearest ten = 90 (K) · Round 255 to the nearest hundred = 300 (H) · Round 36 to the nearest ten = 40 (U) · Round 4,028 to the nearest thousand = 4000 (N) · Round 16 to the nearest ten = 20 (I) · Round 3,248 to the nearest thousand = 3000 (C)

Clue 2 (Addition): "THE SNEAKY SEAL USED THEIR RIGHT FLIPPER"

463 + 252 = 715 (T) · 323 + 166 = 489 (E) · 174 + 171 = 345 (R) · 235 + 215 = 450 (H) · 400 + 182 = 582 (N) · 338 + 593 = 931 (A) · 128 + 276 = 404 (D) · 485 + 399 = 884 (G) · 176 + 110 = 286 (Y) · 147 + 104 = 251 (I) · 625 + 348 = 973 (P) · 336 + 380 = 716 (K) · 343 + 568 = 911 (L) · 214 + 337 = 551 (S) · 88 + 168 = 256 (U) · 122 + 174 = 296 (F)

Clue 3 (Subtraction): "THE BANDIT DANCED TO LOUD WHISTLE SOUNDS"

513 - 18 = 495 (T) · 756 - 87 = 669 (A) · 1061 - 205 = 856 (L) · 770 - 346 = 424 (D) · 1052 - 363 = 689 (U) · 393 - 250 = 143 (E) · 664 - 109 = 555 (W) · 320 - 59 = 261 (I) · 572 - 100 = 472 (N) · 338 - 124 = 214 (H) · 586 - 130 = 456 (C) · 1039 - 257 = 782 (O) · 578 - 72 = 506 (B) · 718 - 370 = 348 (S)

Clue 4 (Multiplication facts (1-12)): "TRACKS SHOW SHED SPOTTED PELT FUR"

1 × 2 = 2 (T) · 7 × 3 = 21 (A) · 11 × 2 = 22 (O) · 6 × 3 = 18 (S) · 12 × 5 = 60 (U) · 4 × 6 = 24 (W) · 11 × 11 = 121 (H) · 12 × 7 = 84 (K) · 7 × 11 = 77 (D) · 8 × 4 = 32 (C) · 12 × 12 = 144 (F) · 2 × 4 = 8 (E) · 12 × 8 = 96 (P) · 6 × 2 = 12 (R) · 7 × 10 = 70 (L)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Iceberg Ivy

100 ÷ 10 = 10 · 24 ÷ 8 = 3 · 20 ÷ 5 = 4 · 20 ÷ 10 = 2 · 144 ÷ 12 = 12 · 99 ÷ 9 = 11 · 5 ÷ 1 = 5 · 9 ÷ 9 = 1 · 18 ÷ 2 = 9 · 54 ÷ 9 = 6 · 32 ÷ 4 = 8