



The Great Golden Anchovy Heist

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The legendary Golden Anchovy has been stolen from Shiver City! A mysterious thief escaped into the freezing wind. As a top detective for the Sub-Zero Patrol, you must track down the culprit before they make it to the deep ocean.

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 Burglar is _____

Possible suspects

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

NAME	PRIMARY GEAR	BACKUP GADGET	DOMINANT FLIPPER	CREST STYLE	WEAKNESS
Mumble	Laser Beak	Ice Wall Builder	Left flippered	Spiky crest	Shining spotlight
Iggy	Glacier Drill	Deep Diver	Right flippered	Slicked crown	Squeaky fish toy
Kowalski	Snow Launcher	Sonar Clicker	Right flippered	Slicked crown	Shining spotlight
Zeke	Snow Launcher	Night Vision	Right flippered	Slicked crown	Warm hot cocoa
Salty	Snow Launcher	Ice Wall Builder	Left flippered	Double plume	Shining spotlight
Private	Laser Beak	Deep Diver	Right flippered	Slicked crown	Shining spotlight
Skipper	Snow Launcher	Deep Diver	Right flippered	Double plume	Squeaky fish toy
Snowy	Laser Beak	Night Vision	Right flippered	Slicked crown	Squeaky fish toy
Pebble	Rocket Sled	Turbo Slider	Right flippered	Double plume	Warm hot cocoa
Feathers	Snow Launcher	Ice Wall Builder	Right flippered	Slicked crown	Shining spotlight
Blizzard	Laser Beak	Night Vision	Right flippered	Double plume	Warm hot cocoa
Penny	Glacier Drill	Sonar Clicker	Left flippered	Slicked crown	Squeaky fish toy
Pingu	Rocket Sled	Ice Wall Builder	Right flippered	Double plume	Squeaky fish toy
Pip	Laser Beak	Deep Diver	Left flippered	Spiky crest	Warm hot cocoa
Hopper	Snow Launcher	Deep Diver	Left flippered	Slicked crown	Shining spotlight
Tux	Laser Beak	Night Vision	Right flippered	Double plume	Shining spotlight
Barnaby	Rocket Sled	Night Vision	Left flippered	Slicked crown	Squeaky fish toy
Frosty	Glacier Drill	Deep Diver	Left flippered	Slicked crown	Squeaky fish toy
Waddlesworth	Grappling Hook	Night Vision	Right flippered	Slicked crown	Shining spotlight
Fritz	Glacier Drill	Sonar Clicker	Left flippered	Slicked crown	Shining spotlight
Lovelace	Glacier Drill	Turbo Slider	Right flippered	Slicked crown	Shining spotlight

CLUE 1

Fractions of a number

The patrol boat found a group of frozen fish blocks. Only a small fraction of them were marked with the thief's logo.

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

T 5	8	40	T 5	8	28	40	13	27	26	40	4	15	26	T 5	8	38	6	40
38	T 5	25	14	37	26	4	29	28	27	40	14							

$5/6 \text{ of } 6 = \square \rightarrow \boxed{\text{T}}$

$1/2 \text{ of } 76 = \square \rightarrow \boxed{\text{A}}$

$4/10 \text{ of } 10 = \square \rightarrow \boxed{\text{S}}$

$3/8 \text{ of } 16 = \square \rightarrow \boxed{\text{V}}$

$1/10 \text{ of } 150 = \square \rightarrow \boxed{\text{N}}$

$3/6 \text{ of } 58 = \square \rightarrow \boxed{\text{L}}$

$2/4 \text{ of } 26 = \square \rightarrow \boxed{\text{F}}$

$1/4 \text{ of } 148 = \square \rightarrow \boxed{\text{B}}$

$1/6 \text{ of } 168 = \square \rightarrow \boxed{\text{I}}$

$4/8 \text{ of } 52 = \square \rightarrow \boxed{\text{O}}$

$5/10 \text{ of } 50 = \square \rightarrow \boxed{\text{U}}$

$3/5 \text{ of } 45 = \square \rightarrow \boxed{\text{D}}$

$4/5 \text{ of } 50 = \square \rightarrow \boxed{\text{E}}$

$2/4 \text{ of } 16 = \square \rightarrow \boxed{\text{H}}$

$4/6 \text{ of } 21 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 2

Order of operations

To unlock the museum's security camera log, you must solve a tricky multi-step code on the main computer terminal.

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

R											R			R		
35	80	11	42	21	53	68	80	46	46	47	35	38	15	35	63	20
		R														
67	47	35	47	22	75	21	42	47	80	41	47	67	15	68	68	

$4 \times 11 - 9 = \square \rightarrow \boxed{\text{R}}$

$12 \times 9 - 28 = \square \rightarrow \boxed{\text{I}}$

$7 \times 10 - 3 = \square \rightarrow \boxed{\text{W}}$

$11 \times 7 - 9 = \square \rightarrow \boxed{\text{L}}$

$9 \times 4 - 21 = \square \rightarrow \boxed{\text{A}}$

$5 + 2 \times 3 = \square \rightarrow \boxed{\text{G}}$

$6 \times 5 - 8 = \square \rightarrow \boxed{\text{O}}$

$6 + 2 \times 7 = \square \rightarrow \boxed{\text{S}}$

$54 + 7 \times 3 = \square \rightarrow \boxed{\text{N}}$

$48 + 5 \times 3 = \square \rightarrow \boxed{\text{K}}$

$6 \times 11 - 25 = \square \rightarrow \boxed{\text{C}}$

$10 \times 6 - 22 = \square \rightarrow \boxed{\text{M}}$

$8 \times 7 - 10 = \square \rightarrow \boxed{\text{P}}$

$9 \times 7 - 21 = \square \rightarrow \boxed{\text{H}}$

$9 \times 8 - 19 = \square \rightarrow \boxed{\text{F}}$

$10 \times 5 - 3 = \square \rightarrow \boxed{\text{E}}$

$5 \times 10 - 29 = \square \rightarrow \boxed{\text{T}}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

The thief ran through the ice block factory. You need to count the rows and columns of giant ice crates they knocked over.

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

T			T													
8	49	100	8	49	70	100	11	49	70	132	11	28	27	144		6
										T						T
16	49	70	2	70	2	60	16	25	27	8	32	70	60	49	8	

$4 \times 2 = \square \rightarrow$ T	$2 \times 1 = \square \rightarrow$ N	$7 \times 10 = \square \rightarrow$ I
$1 \times 11 = \square \rightarrow$ F	$6 \times 10 = \square \rightarrow$ G	$3 \times 9 = \square \rightarrow$ O
$12 \times 12 = \square \rightarrow$ M	$5 \times 5 = \square \rightarrow$ P	$7 \times 4 = \square \rightarrow$ R
$7 \times 7 = \square \rightarrow$ H	$10 \times 10 = \square \rightarrow$ E	$1 \times 6 = \square \rightarrow$ A
$2 \times 8 = \square \rightarrow$ S	$8 \times 4 = \square \rightarrow$ L	$12 \times 11 = \square \rightarrow$ D

Scratch space:

CLUE 4

The suspect's thermal tracker signal is fuzzy. The radar screen can only show the distance rounded to the nearest ten miles.

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

70 2000 700 2300 170 900 50 9000 170 500 300 230 1300 3000 50 70 1100 20 50 500

2000 1100 200 170 900 1100 300 1100 20 50 2300 170 50

Round 72 to the nearest ten $\rightarrow$ **A**

Round 228 to the nearest ten $\rightarrow$ **W**

Round 727 to the nearest hundred $\rightarrow$ **L**

Round 464 to the nearest hundred $\rightarrow$ **R**

Round 50 to the nearest ten $\rightarrow$ **E**

Round 203 to the nearest hundred → **U**

Round 2,765 to the nearest thousand → **F**

Round 1,739 to the nearest thousand $\rightarrow$ **S**

Round 340 to the nearest hundred $\rightarrow$

Round 905 to the nearest hundred $\rightarrow$ **K**

Round 1,260 to the nearest hundred → **N**

Round 2,307 to the nearest hundred $\rightarrow$

Round 8,987 to the nearest thousand → **D**

Round 16 to the nearest ten → **H**

Round 167 to the nearest ten $\rightarrow$ **C**

Round 1,063 to the nearest hundred → **T**

Scratch space:

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

A group of young penguins found some dropped shiny loot. They want to split the treasure evenly so everyone gets a fair share.

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:

$12 \div 4 = \boxed{}$

$99 \div 9 = \boxed{}$

$60 \div 12 = \boxed{}$

$10 \div 10 = \boxed{}$

$60 \div 6 = \boxed{}$

$18 \div 9 = \boxed{}$

$64 \div 8 = \boxed{}$

$12 \div 2 = \boxed{}$

$63 \div 7 = \boxed{}$

$120 \div 10 = \boxed{}$

$49 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted a hole with a laser beak, then slid down the steep hill like a turbo slider.
2. The villain fired a snow launcher to block the exit, then escaped into the freezing water as a deep diver.
3. The villain fired a snow launcher to block the exit, then tracked the escape path using a sonar clicker.
4. The villain blasted a hole with a laser beak, then escaped into the freezing water as a deep diver.
5. The villain swung over the security gate using a grappling hook, then navigated the dark sewer pipes with night vision.
6. The villain escaped on a rocket sled, then blocked the pursuit by building a quick ice wall.
7. The villain escaped on a rocket sled, then slid down the steep hill like a turbo slider.
8. The villain drilled through the vault with a glacier drill, then escaped into the freezing water as a deep diver.
9. The villain escaped on a rocket sled, then tracked the escape path using a sonar clicker.
10. The villain swung over the security gate using a grappling hook, then blocked the pursuit by building a quick ice wall.
11. The villain fired a snow launcher to block the exit, then blocked the pursuit by building a quick ice wall.
12. The villain fired a snow launcher to block the exit, then navigated the dark sewer pipes with night vision.

Answer Key

The Great Golden Anchovy Heist

Culprit: Private

Laser Beak · Deep Diver · Right flippered · Slicked crown · Shining spotlight

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE THIEF DOES NOT HAVE A TURBO SLIDER"

$5/6$ of 6 = 5 (T) · $1/2$ of 76 = 38 (A) · $4/10$ of 10 = 4 (S) · $3/8$ of 16 = 6 (V) · $1/10$ of 150 = 15 (N) · $3/6$ of 58 = 29 (L) · $2/4$ of 26 = 13 (F) · $1/4$ of 148 = 37 (B) · $1/6$ of 168 = 28 (I) · $4/8$ of 52 = 26 (O) · $5/10$ of 50 = 25 (U) · $3/5$ of 45 = 27 (D) · $4/5$ of 50 = 40 (E) · $2/4$ of 16 = 8 (H) · $4/6$ of 21 = 14 (R)

Clue 2 (Order of operations): "RIGHT FLIPPER MARKS WERE ON THE ICE WALL"

$4 \times 11 - 9 = 35$ (R) · $12 \times 9 - 28 = 80$ (I) · $7 \times 10 - 3 = 67$ (W) · $11 \times 7 - 9 = 68$ (L) · $9 \times 4 - 21 = 15$ (A) · $5 + 2 \times 3 = 11$ (G) · $6 \times 5 - 8 = 22$ (O) · $6 + 2 \times 7 = 20$ (S) · $54 + 7 \times 3 = 75$ (N) · $48 + 5 \times 3 = 63$ (K) · $6 \times 11 - 25 = 41$ (C) · $10 \times 6 - 22 = 38$ (M) · $8 \times 7 - 10 = 46$ (P) · $9 \times 7 - 21 = 42$ (H) · $9 \times 8 - 19 = 53$ (F) · $10 \times 5 - 3 = 47$ (E) · $5 \times 10 - 29 = 21$ (T)

Clue 3 (Multiplication facts (1-12)): "THE THIEF HID FROM A SHINING SPOTLIGHT"

$4 \times 2 = 8$ (T) · $2 \times 1 = 2$ (N) · $7 \times 10 = 70$ (I) · $1 \times 11 = 11$ (F) · $6 \times 10 = 60$ (G) · $3 \times 9 = 27$ (O) · $12 \times 12 = 144$ (M) · $5 \times 5 = 25$ (P) · $7 \times 4 = 28$ (R) · $7 \times 7 = 49$ (H) · $10 \times 10 = 100$ (E) · $1 \times 6 = 6$ (A) · $2 \times 8 = 16$ (S) · $8 \times 4 = 32$ (L) · $12 \times 11 = 132$ (D)

Clue 4 (Rounding): "A SLICKED CROWN FEATHER STUCK TO THE ICE"

Round 72 to the nearest ten = 70 (A) · Round 228 to the nearest ten = 230 (W) · Round 727 to the nearest hundred = 700 (L) · Round 464 to the nearest hundred = 500 (R) · Round 50 to the nearest ten = 50 (E) · Round 203 to the nearest hundred = 200 (U) · Round 2,765 to the nearest thousand = 3000 (F) · Round 1,739 to the nearest thousand = 2000 (S) · Round 340 to the nearest hundred = 300 (O) · Round 905 to the nearest hundred = 900 (K) · Round 1,260 to the nearest hundred = 1300 (N) · Round 2,307 to the nearest hundred = 2300 (I) · Round 8,987 to the nearest thousand = 9000 (D) · Round 16 to the nearest ten = 20 (H) · Round 167 to the nearest ten = 170 (C) · Round 1,063 to the nearest hundred = 1100 (T)

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

$12 \div 4 = 3$ · $99 \div 9 = 11$ · $60 \div 12 = 5$ · $10 \div 10 = 1$ · $60 \div 6 = 10$ · $18 \div 9 = 2$ · $64 \div 8 = 8$ · $12 \div 2 = 6$ · $63 \div 7 = 9$ · $120 \div 10 = 12$ · $49 \div 7 = 7$