



The Case of the Stolen Sky Dragon

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

Detective: _____ Date: _____

At dawn the Hatchling Keeper of Ember Peak was snatched right off her ledge, and her bronze warning horn was left dangling over the cliff. Scorch marks, loose scales, and a single muddy claw print are all the clues the young dragon riders have. One of twenty-four roosting dragons did it, and only careful tracking will reveal which.

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 Roost Raider is _____

Possible suspects

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

NAME	BREATH WEAPON	SECRET SKILL	WING TYPE	SCALE COLOR	WEAKNESS
Ashfang	Lightning Breath	Storm Calling	Leathery Wings	Emerald Scales	Bright Mirrors
Stormhide	Fire Breath	Storm Calling	Leathery Wings	Crimson Scales	Cold Iron
Ironcrest	Fire Breath	Burrowing	Leathery Wings	Crimson Scales	Cold Iron
Ravenscale	Poison Mist	Storm Calling	Leathery Wings	Silver Scales	Bright Mirrors
Emberlyn	Lightning Breath	Shape Shifting	Leathery Wings	Emerald Scales	Bright Mirrors
Gildscale	Poison Mist	Mind Whisper	Leathery Wings	Silver Scales	Loud Bells
Drakemora	Frost Breath	Invisible Cloak	Feathered Wings	Silver Scales	Loud Bells
Kestrelwyrn	Fire Breath	Storm Calling	Leathery Wings	Emerald Scales	Cold Iron
Umbracoil	Stone Roar	Storm Calling	Leathery Wings	Crimson Scales	Cold Iron
Lumentail	Fire Breath	Shape Shifting	Leathery Wings	Emerald Scales	Cold Iron
Wyndrake	Stone Roar	Mind Whisper	Leathery Wings	Silver Scales	Cold Iron
Brindlewing	Stone Roar	Mind Whisper	Feathered Wings	Emerald Scales	Loud Bells
Hollowclaw	Frost Breath	Burrowing	Leathery Wings	Silver Scales	Bright Mirrors
Obsidamir	Frost Breath	Burrowing	Leathery Wings	Crimson Scales	Bright Mirrors
Pyrelock	Fire Breath	Burrowing	Leathery Wings	Crimson Scales	Bright Mirrors
Marrowsky	Stone Roar	Invisible Cloak	Leathery Wings	Silver Scales	Bright Mirrors
Jasperflight	Poison Mist	Invisible Cloak	Leathery Wings	Silver Scales	Bright Mirrors
Verdantail	Stone Roar	Storm Calling	Leathery Wings	Emerald Scales	Loud Bells
Thornveil	Lightning Breath	Invisible Cloak	Feathered Wings	Silver Scales	Bright Mirrors
Quillthorn	Stone Roar	Burrowing	Leathery Wings	Silver Scales	Bright Mirrors
Frostbeak	Poison Mist	Storm Calling	Leathery Wings	Emerald Scales	Cold Iron

Rounding

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

[illegible]

Round 3,107 to the nearest hundred $\rightarrow$ **T**

Round 20,970 to the nearest ten thousand $\rightarrow$ **H**

Round 507,210 to the nearest hundred thousand → **E**

Round 314 to the nearest ten $\rightarrow$ **R**

Round 2,848,990 to the nearest hundred thousand → **A**

Round 4,718 to the nearest hundred $\rightarrow$

Round 141,983 to the nearest ten thousand $\rightarrow$ **D**

Round 141 to the nearest ten $\rightarrow$ **C**

Round 2,759 to the nearest hundred $\rightarrow$ **N**

Round 473 to the nearest hundred $\rightarrow$

Round 74,923 to the nearest ten thousand $\rightarrow$ **L**

Round 6,566 to the nearest thousand → S

Round 317 to the nearest hundred $\rightarrow$ **M**

Scratch space:

CLUE 2

Addition

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

A									A			A		
4388	5204	9534	3171	2576	4538	7676	3171	4388	5766	5380	4388	7676	4538	

		A										A			A				
7719	4538	4388	8806	2576	4538	7676	2133	5766	9534	5428	3377	3171	4388	8806	8282	4388	5766	5428	

$2328 + 2060 = \square \rightarrow \text{A}$

$1764 + 3440 = \square \rightarrow \text{F}$

$3897 + 5637 = \square \rightarrow \text{I}$

$1153 + 2018 = \square \rightarrow \text{S}$

$1090 + 1486 = \square \rightarrow \text{H}$

$1739 + 2799 = \square \rightarrow \text{E}$

$2432 + 5244 = \square \rightarrow \text{R}$

$4000 + 1766 = \square \rightarrow \text{W}$

$2603 + 2777 = \square \rightarrow \text{B}$

$2603 + 5116 = \square \rightarrow \text{L}$

$4736 + 4070 = \square \rightarrow \text{T}$

$1083 + 1050 = \square \rightarrow \text{Y}$

$2156 + 3272 = \square \rightarrow \text{N}$

$1945 + 1432 = \square \rightarrow \text{G}$

$5791 + 2491 = \square \rightarrow \text{D}$

Scratch space:

CLUE 3

Subtraction

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

S						S										
6664	5957	1953	1226	7203	8553	6664	5957	1953	1798	8553	8293	6164	8123	1986	5957	2047

									S				S	
7893	8123	6164	6164	4940	6164	8123	4288	8123	2047	6664	1953	2658	1953	6664

$8353 - 1689 = \square \rightarrow \boxed{\text{S}}$

$7352 - 1395 = \square \rightarrow \boxed{\text{H}}$

$4916 - 2963 = \square \rightarrow \boxed{\text{E}}$

$5501 - 4275 = \square \rightarrow \boxed{\text{F}}$

$9915 - 2712 = \square \rightarrow \boxed{\text{L}}$

$11957 - 3404 = \square \rightarrow \boxed{\text{A}}$

$2772 - 974 = \square \rightarrow \boxed{\text{D}}$

$9747 - 1454 = \square \rightarrow \boxed{\text{B}}$

$8360 - 2196 = \square \rightarrow \boxed{\text{R}}$

$10522 - 2399 = \square \rightarrow \boxed{\text{I}}$

$2939 - 953 = \square \rightarrow \boxed{\text{G}}$

$2563 - 516 = \square \rightarrow \boxed{\text{T}}$

$8708 - 815 = \square \rightarrow \boxed{\text{M}}$

$6863 - 1923 = \square \rightarrow \boxed{\text{O}}$

$6024 - 1736 = \square \rightarrow \boxed{\text{N}}$

$4756 - 2098 = \square \rightarrow \boxed{\text{Y}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

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

A									A									
44	80	108	9	54	88	49	80	2	44	9	88	80	99	35	2	110	99	63
99	96	88	96	63	49	6	49	63	36	88								

$11 \times 4 =$

 $\rightarrow$
A

$8 \times 10 =$

 $\rightarrow$
S

$9 \times 12 =$

 $\rightarrow$
I

$3 \times 3 =$

 $\rightarrow$
L

$6 \times 9 =$

 $\rightarrow$
V

$8 \times 11 =$

 $\rightarrow$
E

$7 \times 7 =$

 $\rightarrow$
R

$2 \times 1 =$

 $\rightarrow$
C

$11 \times 9 =$

 $\rightarrow$
T

$5 \times 7 =$

 $\rightarrow$
U

$11 \times 10 =$

 $\rightarrow$
K

$9 \times 7 =$

 $\rightarrow$
O

$8 \times 12 =$

 $\rightarrow$
H

$1 \times 6 =$

 $\rightarrow$
N

$6 \times 6 =$

 $\rightarrow$
P

Scratch space:

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

$10 \div 5 = \boxed{}$

$10 \div 2 = \boxed{}$

$6 \div 1 = \boxed{}$

$70 \div 7 = \boxed{}$

$24 \div 3 = \boxed{}$

$28 \div 7 = \boxed{}$

$33 \div 3 = \boxed{}$

$144 \div 12 = \boxed{}$

$18 \div 2 = \boxed{}$

$6 \div 2 = \boxed{}$

$77 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain freezes the gate shut with frost, then digs a tunnel under the nest.
2. The villain cracks the cliff with a stone roar, then digs a tunnel under the nest.
3. The villain scorches the ledge with fire, then whispers the guards to sleep.
4. The villain fogs the roost with poison mist, then whispers the guards to sleep.
5. The villain fogs the roost with poison mist, then slips by unseen under a cloak.
6. The villain cracks the cliff with a stone roar, then slips by unseen under a cloak.
7. The villain cracks the cliff with a stone roar, then takes the shape of a friendly dragon.
8. The villain fries the warning horn with lightning, then slips by unseen under a cloak.
9. The villain fogs the roost with poison mist, then takes the shape of a friendly dragon.
10. The villain fries the warning horn with lightning, then digs a tunnel under the nest.
11. The villain scorches the ledge with fire, then digs a tunnel under the nest.
12. The villain fogs the roost with poison mist, then digs a tunnel under the nest.

Answer Key

The Case of the Stolen Sky Dragon

Culprit: Hollowclaw

Frost Breath · Burrowing · Leathery Wings · Silver Scales · Bright Mirrors

Trail: Start 21 → Clue 1 14 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE RAIDER CANNOT CALL THE STORM"

Round 3,107 to the nearest hundred = 3100 (T) · Round 20,970 to the nearest ten thousand = 20000 (H) · Round 507,210 to the nearest hundred thousand = 500000 (E) · Round 314 to the nearest ten = 310 (R) · Round 2,848,990 to the nearest hundred thousand = 2800000 (A) · Round 4,718 to the nearest hundred = 4700 (I) · Round 141,983 to the nearest ten thousand = 140000 (D) · Round 141 to the nearest ten = 140 (C) · Round 2,759 to the nearest hundred = 2800 (N) · Round 473 to the nearest hundred = 500 (O) · Round 74,923 to the nearest ten thousand = 70000 (L) · Round 6,566 to the nearest thousand = 7000 (S) · Round 317 to the nearest hundred = 300 (M)

Clue 2 (Addition): "A FISHER SAW BARE LEATHERY WINGS AT DAWN"

$2328 + 2060 = 4388$ (A) · $1764 + 3440 = 5204$ (F) · $3897 + 5637 = 9534$ (I) · $1153 + 2018 = 3171$ (S) · $1090 + 1486 = 2576$ (H) · $1739 + 2799 = 4538$ (E) · $2432 + 5244 = 7676$ (R) · $4000 + 1766 = 5766$ (W) · $2603 + 2777 = 5380$ (B) · $2603 + 5116 = 7719$ (L) · $4736 + 4070 = 8806$ (T) · $1083 + 1050 = 2133$ (Y) · $2156 + 3272 = 5428$ (N) · $1945 + 1432 = 3377$ (G) · $5791 + 2491 = 8282$ (D)

Clue 3 (Subtraction): "SHE FLASHED A BRIGHT MIRROR IN ITS EYES"

$8353 - 1689 = 6664$ (S) · $7352 - 1395 = 5957$ (H) · $4916 - 2963 = 1953$ (E) · $5501 - 4275 = 1226$ (F) · $9915 - 2712 = 7203$ (L) · $11957 - 3404 = 8553$ (A) · $2772 - 974 = 1798$ (D) · $9747 - 1454 = 8293$ (B) · $8360 - 2196 = 6164$ (R) · $10522 - 2399 = 8123$ (I) · $2939 - 953 = 1986$ (G) · $2563 - 516 = 2047$ (T) · $8708 - 815 = 7893$ (M) · $6863 - 1923 = 4940$ (O) · $6024 - 1736 = 4288$ (N) · $4756 - 2098 = 2658$ (Y)

Clue 4 (Multiplication facts (1-12)): "A SILVER SCALE STUCK TO THE HORN ROPE"

$11 \times 4 = 44$ (A) · $8 \times 10 = 80$ (S) · $9 \times 12 = 108$ (I) · $3 \times 3 = 9$ (L) · $6 \times 9 = 54$ (V) · $8 \times 11 = 88$ (E) · $7 \times 7 = 49$ (R) · $2 \times 1 = 2$ (C) · $11 \times 9 = 99$ (T) · $5 \times 7 = 35$ (U) · $11 \times 10 = 110$ (K) · $9 \times 7 = 63$ (O) · $8 \times 12 = 96$ (H) · $1 \times 6 = 6$ (N) · $6 \times 6 = 36$ (P)

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

$10 \div 5 = 2$ · $10 \div 2 = 5$ · $6 \div 1 = 6$ · $70 \div 7 = 10$ · $24 \div 3 = 8$ · $28 \div 7 = 4$ · $33 \div 3 = 11$ · $144 \div 12 = 12$ · $18 \div 2 = 9$ · $6 \div 2 = 3$ · $77 \div 11 = 7$