



The Case of the Stolen Skyflame

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

Detective: _____ **Date:** _____

At dawn the great bell of Cinderpeak rang wrong, and the Hatchling Keeper was gone from her nest-tower. Scorch marks streaked the launch ramps, and one stray scale glittered on the cold stone floor. Twenty-four dragons of the roost all swear they were asleep, but one of them is lying.

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 TYPE	FLIGHT TRICK	DRAGON KIND	SCALE COLOR	WHAT DROVE IT OFF
Tidesong	Shadow Breath	Tail Spin	Frilled Dragon	Emerald Scales	Bright Lanterns
Stormridge	Stone Breath	Tail Spin	Horned Dragon	Crimson Scales	Bright Lanterns
Mistcoil	Shadow Breath	Tail Spin	Horned Dragon	Emerald Scales	Bright Lanterns
Duskscale	Fire Breath	Tail Spin	Horned Dragon	Emerald Scales	Bright Lanterns
Bramblehorn	Ice Breath	Silent Glide	Horned Dragon	Golden Scales	Bright Lanterns
Gustfeather	Fire Breath	Silent Glide	Frilled Dragon	Golden Scales	Bright Lanterns
Sparkfin	Shadow Breath	Loop Dive	Frilled Dragon	Emerald Scales	Cold Water
Ashwing	Shadow Breath	Loop Dive	Frilled Dragon	Crimson Scales	Loud Bells
Pebblehide	Shadow Breath	Silent Glide	Horned Dragon	Golden Scales	Loud Bells
Ravenwing	Stone Breath	Wing Gust	Frilled Dragon	Emerald Scales	Bright Lanterns
Quartzback	Fire Breath	Silent Glide	Horned Dragon	Emerald Scales	Bright Lanterns
Snowmane	Storm Breath	Cloud Vanish	Horned Dragon	Golden Scales	Cold Water
Brightfang	Ice Breath	Silent Glide	Horned Dragon	Emerald Scales	Bright Lanterns
Thornscale	Storm Breath	Tail Spin	Horned Dragon	Crimson Scales	Loud Bells
Coraldrift	Storm Breath	Tail Spin	Horned Dragon	Emerald Scales	Cold Water
Embertail	Stone Breath	Cloud Vanish	Frilled Dragon	Crimson Scales	Loud Bells
Nightglow	Shadow Breath	Tail Spin	Frilled Dragon	Crimson Scales	Loud Bells
Glimmertail	Storm Breath	Wing Gust	Frilled Dragon	Golden Scales	Cold Water
Marblecrest	Stone Breath	Cloud Vanish	Frilled Dragon	Emerald Scales	Cold Water
Flickerwing	Fire Breath	Cloud Vanish	Horned Dragon	Emerald Scales	Bright Lanterns
Hollowfrost	Fire Breath	Loop Dive	Frilled Dragon	Crimson Scales	Bright Lanterns

CLUE 1
Rounding

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

T															T
47000	2000	280000	14000	300000	470000	4700	280000	14000	70	300000	500	500	1400	47000	

								T							
470	300000	500	470000	50000	2000	470000	500	47000	1400	70	200	1400	2800	4700	50000

Round 47,251 to the nearest thousand →

T

Round 73 to the nearest ten →

C

Round 13,828 to the nearest thousand →

R

Round 281,011 to the nearest ten thousand →

E

Round 1,354 to the nearest hundred →

O

Round 2,847 to the nearest hundred →

U

Round 51,053 to the nearest ten thousand →

S

Round 4,695 to the nearest hundred →

D

Round 467 to the nearest ten →

V

Round 470,971 to the nearest ten thousand →

I

Round 2,455 to the nearest thousand →

H

Round 261,788 to the nearest hundred thousand →

A

Round 184 to the nearest hundred →

L

Round 508 to the nearest hundred →

N

Scratch space:

CLUE 2

Addition

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

A			A				A						A			
9121	7745	9657	9121	5772	9524	6461	9121	4169	6417	4169	2045	6461	7445	9121	5772	9466

										A			
7445	2045	5772	4766	6461	4857	4766	6417	7445	9708	9524	9121	5772	7127

$4236 + 4885 = \square \rightarrow \boxed{\text{A}}$

$6614 + 2852 = \square \rightarrow \boxed{\text{P}}$

$6193 + 3464 = \square \rightarrow \boxed{\text{U}}$

$1910 + 2947 = \square \rightarrow \boxed{\text{I}}$

$816 + 1229 = \square \rightarrow \boxed{\text{O}}$

$2260 + 4201 = \square \rightarrow \boxed{\text{S}}$

$2425 + 4702 = \square \rightarrow \boxed{\text{K}}$

$3869 + 1903 = \square \rightarrow \boxed{\text{R}}$

$1582 + 2587 = \square \rightarrow \boxed{\text{W}}$

$1979 + 2787 = \square \rightarrow \boxed{\text{N}}$

$5766 + 3942 = \square \rightarrow \boxed{\text{E}}$

$2529 + 3888 = \square \rightarrow \boxed{\text{T}}$

$2488 + 4957 = \square \rightarrow \boxed{\text{H}}$

$3817 + 5707 = \square \rightarrow \boxed{\text{D}}$

$4269 + 3476 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 3
Subtraction

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

T																	
1839	6689	2457	5276	2457	2457	8966	2457	2904	2904	7543	4385	5045	2457	3164	7543		
			T							T							
3598	7543	8589	1839	2457	2904	8589	7543	8589	3164	4385	1839	4804	3598	2457	3164		

$5937 - 4098 = \square \rightarrow \text{[T]}$

$4568 - 183 = \square \rightarrow \text{[I]}$

$10074 - 4798 = \square \rightarrow \text{[K]}$

$7686 - 997 = \square \rightarrow \text{[H]}$

$8778 - 189 = \square \rightarrow \text{[N]}$

$4992 - 188 = \square \rightarrow \text{[F]}$

$4800 - 1202 = \square \rightarrow \text{[L]}$

$7753 - 2708 = \square \rightarrow \text{[S]}$

$9100 - 1557 = \square \rightarrow \text{[A]}$

$6722 - 3558 = \square \rightarrow \text{[D]}$

$2858 - 401 = \square \rightarrow \text{[E]}$

$12867 - 3901 = \square \rightarrow \text{[P]}$

$4978 - 2074 = \square \rightarrow \text{[R]}$

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					A						
8	84	44	108	108	49	9	30	8	35	108	35	8	5	18	5	132	10	108	
49	108	9	132	132	14	11	108	44											

$2 \times 4 = \square \rightarrow$ A	$1 \times 5 = \square \rightarrow$ Y	$10 \times 3 = \square \rightarrow$ C	
$12 \times 11 = \square \rightarrow$ T	$12 \times 9 = \square \rightarrow$ E	$7 \times 5 = \square \rightarrow$ L	
$7 \times 12 = \square \rightarrow$ G	$1 \times 11 = \square \rightarrow$ W	$7 \times 2 = \square \rightarrow$ O	
$7 \times 7 = \square \rightarrow$ N	$4 \times 11 = \square \rightarrow$ R	$2 \times 9 = \square \rightarrow$ B	$3 \times 3 = \square \rightarrow$ S
$1 \times 10 = \square \rightarrow$ H			

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:

$5 \div 1 = \boxed{}$

$14 \div 7 = \boxed{}$

$60 \div 10 = \boxed{}$

$30 \div 3 = \boxed{}$

$132 \div 11 = \boxed{}$

$49 \div 7 = \boxed{}$

$9 \div 1 = \boxed{}$

$16 \div 4 = \boxed{}$

$18 \div 6 = \boxed{}$

$66 \div 6 = \boxed{}$

$56 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scorches the ramps with fire, then knocks torches over with a wing gust.
2. The villain scorches the ramps with fire, then glides in without a sound.
3. The villain cracks the walls with a stone roar, then loops down behind the guards.
4. The villain cracks the walls with a stone roar, then spins its tail to sweep the floor.
5. The villain blots out the lamps with shadow, then glides in without a sound.
6. The villain freezes the doors shut with ice, then knocks torches over with a wing gust.
7. The villain blots out the lamps with shadow, then knocks torches over with a wing gust.
8. The villain scorches the ramps with fire, then loops down behind the guards.
9. The villain blasts the gates open with storm wind, then spins its tail to sweep the floor.
10. The villain scorches the ramps with fire, then spins its tail to sweep the floor.
11. The villain scorches the ramps with fire, then drops from above in a sharp dive.
12. The villain blots out the lamps with shadow, then spins its tail to sweep the floor.

Answer Key

The Case of the Stolen Skyflame

Culprit: Quartzback

Fire Breath · Silent Glide · Horned Dragon · Emerald Scales · Bright Lanterns

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE RAIDER CANNOT VANISH INTO CLOUDS"

Round 47,251 to the nearest thousand = 47000 (T) · Round 73 to the nearest ten = 70 (C) · Round 13,828 to the nearest thousand = 14000 (R) · Round 281,011 to the nearest ten thousand = 280000 (E) · Round 1,354 to the nearest hundred = 1400 (O) · Round 2,847 to the nearest hundred = 2800 (U) · Round 51,053 to the nearest ten thousand = 50000 (S) · Round 4,695 to the nearest hundred = 4700 (D) · Round 467 to the nearest ten = 470 (V) · Round 470,971 to the nearest ten thousand = 470000 (I) · Round 2,455 to the nearest thousand = 2000 (H) · Round 261,788 to the nearest hundred thousand = 300000 (A) · Round 184 to the nearest hundred = 200 (L) · Round 508 to the nearest hundred = 500 (N)

Clue 2 (Addition): "A GUARD SAW TWO SHARP HORNS IN THE DARK"

$4236 + 4885 = 9121$ (A) · $6614 + 2852 = 9466$ (P) · $6193 + 3464 = 9657$ (U) · $1910 + 2947 = 4857$ (I) · $816 + 1229 = 2045$ (O) · $2260 + 4201 = 6461$ (S) · $2425 + 4702 = 7127$ (K) · $3869 + 1903 = 5772$ (R) · $1582 + 2587 = 4169$ (W) · $1979 + 2787 = 4766$ (N) · $5766 + 3942 = 9708$ (E) · $2529 + 3888 = 6417$ (T) · $2488 + 4957 = 7445$ (H) · $3817 + 5707 = 9524$ (D) · $4269 + 3476 = 7745$ (G)

Clue 3 (Subtraction): "THE KEEPER RAISED A LANTERN AND IT FLED"

$5937 - 4098 = 1839$ (T) · $4568 - 183 = 4385$ (I) · $10074 - 4798 = 5276$ (K) · $7686 - 997 = 6689$ (H) · $8778 - 189 = 8589$ (N) · $4992 - 188 = 4804$ (F) · $4800 - 1202 = 3598$ (L) · $7753 - 2708 = 5045$ (S) · $9100 - 1557 = 7543$ (A) · $6722 - 3558 = 3164$ (D) · $2858 - 401 = 2457$ (E) · $12867 - 3901 = 8966$ (P) · $4978 - 2074 = 2904$ (R)

Clue 4 (Multiplication facts (1-12)): "A GREEN SCALE LAY BY THE NEST TOWER"

$2 \times 4 = 8$ (A) · $1 \times 5 = 5$ (Y) · $10 \times 3 = 30$ (C) · $12 \times 11 = 132$ (T) · $12 \times 9 = 108$ (E) · $7 \times 5 = 35$ (L) · $7 \times 12 = 84$ (G) · $1 \times 11 = 11$ (W) · $7 \times 2 = 14$ (O) · $7 \times 7 = 49$ (N) · $4 \times 11 = 44$ (R) · $2 \times 9 = 18$ (B) · $3 \times 3 = 9$ (S) · $1 \times 10 = 10$ (H)

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

$5 \div 1 = 5$ · $14 \div 7 = 2$ · $60 \div 10 = 6$ · $30 \div 3 = 10$ · $132 \div 11 = 12$ · $49 \div 7 = 7$ · $9 \div 1 = 9$ · $16 \div 4 = 4$ · $18 \div 6 = 3$ · $66 \div 6 = 11$ · $56 \div 7 = 8$