



The Mystery of the Rogue Dragon

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

Detective: _____ Date: _____

A rogue dragon raided the Great Hatchery and snatched the Sacred Fire Egg! The Grand Dragon Keeper needs your help to decode the clues, track down the culprit, and save the egg before it hatches.

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 rogue dragon is _____

Possible suspects

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

NAME	PRIMARY ATTACK	SPECIAL TRAIT	DOMINANT CLAW	CREST COLOR	SECRET WEAKNESS
Draco	Frost Breath	Sonic Screech	Left-clawed	Ruby Crest	Moon Bell
Shenron	Frost Breath	Flame Aura	Right-clawed	Emerald Crest	Starlight Gem
Ridley	Lightning Roar	Flame Aura	Left-clawed	Ruby Crest	Starlight Gem
Smaug	Magma Blast	Crystal Tail	Right-clawed	Ruby Crest	Ice Moss
Vermithrax	Frost Breath	Smoke Screen	Left-clawed	Ruby Crest	Moon Bell
Onyx	Acid Spit	Crystal Tail	Left-clawed	Sapphire Crest	Moon Bell
Charizard	Frost Breath	Smoke Screen	Left-clawed	Sapphire Crest	Ice Moss
Flare	Frost Breath	Iron Scales	Right-clawed	Ruby Crest	Moon Bell
Pyre	Frost Breath	Sonic Screech	Right-clawed	Sapphire Crest	Starlight Gem
Scorch	Acid Spit	Smoke Screen	Right-clawed	Ruby Crest	Starlight Gem
Mushu	Lightning Roar	Crystal Tail	Right-clawed	Emerald Crest	Starlight Gem
Dragonite	Frost Breath	Crystal Tail	Right-clawed	Sapphire Crest	Starlight Gem
Toothless	Gale Wing	Iron Scales	Left-clawed	Ruby Crest	Starlight Gem
Falkor	Acid Spit	Crystal Tail	Left-clawed	Emerald Crest	Starlight Gem
Haku	Magma Blast	Flame Aura	Left-clawed	Ruby Crest	Moon Bell
Spyro	Acid Spit	Iron Scales	Right-clawed	Ruby Crest	Starlight Gem
Ember	Frost Breath	Smoke Screen	Right-clawed	Ruby Crest	Starlight Gem
Crimson	Magma Blast	Sonic Screech	Right-clawed	Ruby Crest	Starlight Gem
Cinder	Magma Blast	Iron Scales	Left-clawed	Ruby Crest	Starlight Gem
Blaze	Gale Wing	Flame Aura	Right-clawed	Ruby Crest	Starlight Gem
Norbert	Gale Wing	Iron Scales	Left-clawed	Ruby Crest	Ice Moss

CLUE 1

Rounding

The cave lookout radar rounded the dragon flight speed to the nearest hundred.

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

T																	T
2300	90	170	300	700	1300	1300	30	700	5000	2900	200	170	4300	5000	200	2300	
90	30	300	170	30	4300	200	5000	700	130	4300	130	50	170	170	130	90	

Round 2,326 to the nearest hundred → **T**

Round 682 to the nearest hundred → **I**

Round 4,703 to the nearest thousand → **N**

Round 48 to the nearest ten → **R**

Round 1,270 to the nearest hundred → **L**

Round 134 to the nearest ten → **C**

Round 180 to the nearest hundred → **O**

Round 348 to the nearest hundred → **V**

Round 2,919 to the nearest hundred → **D**

Round 167 to the nearest ten → **E**

Round 86 to the nearest ten → **H**

Round 4,338 to the nearest hundred → **S**

Round 28 to the nearest ten → **A**

Scratch space:

CLUE 2 Addition

The dragon keeper added up all the dropped scales found near both roosts.

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

R											R							R	
4378	5331	9324	9086	9682	6739	2319	8476	8173	9051	8476	4378	9281	9066	8173	8308	4378	8308		
							R					R						R	
2319	8308	3205	9682	9797	8308	8476	4378	9682	9086	8308	9682	4378	8308	8476	9066	5731	4378	8308	

$1472 + 2906 = \square \rightarrow$ R	$1542 + 777 = \square \rightarrow$ L	$4874 + 3434 = \square \rightarrow$ E
$4038 + 5028 = \square \rightarrow$ S	$3307 + 5744 = \square \rightarrow$ M	$4024 + 4149 = \square \rightarrow$ W
$2473 + 3258 = \square \rightarrow$ U	$3000 + 6797 = \square \rightarrow$ N	$2452 + 2879 = \square \rightarrow$ I
$2803 + 6283 = \square \rightarrow$ H	$1848 + 1357 = \square \rightarrow$ F	$4423 + 4901 = \square \rightarrow$ G
$4505 + 5177 = \square \rightarrow$ T	$6309 + 2972 = \square \rightarrow$ K	$4741 + 3735 = \square \rightarrow$ A
$2647 + 4092 = \square \rightarrow$ C		

Scratch space:

CLUE 3
Subtraction

We subtracted the stolen gold coins from the total in the dragon vault.

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

A			A										
2619	7937	6161	2619	5370	1522	8562	3736	5045	6161	3736	4422	2426	

5370	4422	4872	1522	4422	6543	6161	4422	4878	6161	5045	4422	4872	8562

		A		
1136	1522	2619	7937	6161

$4403 - 1784 = \square \rightarrow \boxed{\text{A}}$

$6844 - 301 = \square \rightarrow \boxed{\text{C}}$

$9601 - 4723 = \square \rightarrow \boxed{\text{D}}$

$11536 - 2974 = \square \rightarrow \boxed{\text{I}}$

$9552 - 4182 = \square \rightarrow \boxed{\text{R}}$

$11783 - 3846 = \square \rightarrow \boxed{\text{S}}$

$9672 - 3511 = \square \rightarrow \boxed{\text{T}}$

$2703 - 1181 = \square \rightarrow \boxed{\text{L}}$

$4493 - 2067 = \square \rightarrow \boxed{\text{M}}$

$8017 - 2972 = \square \rightarrow \boxed{\text{H}}$

$1490 - 354 = \square \rightarrow \boxed{\text{B}}$

$8062 - 4326 = \square \rightarrow \boxed{\text{G}}$

$7848 - 3426 = \square \rightarrow \boxed{\text{E}}$

$8812 - 3940 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The guards checked four rows of stone nests holding equal numbers of gems.

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

A 42	2	100	30	50	56	2	49	24	36	24	56	A 42	9	49	121	49	9	9
33	28	36	3	49	8	33	100	28	36	A 42	25	28						

$7 \times 6 = \square \rightarrow \boxed{\text{A}}$	$1 \times 3 = \square \rightarrow \boxed{\text{H}}$	$7 \times 7 = \square \rightarrow \boxed{\text{E}}$	$1 \times 9 = \square \rightarrow \boxed{\text{L}}$
$5 \times 5 = \square \rightarrow \boxed{\text{I}}$	$2 \times 4 = \square \rightarrow \boxed{\text{M}}$	$6 \times 4 = \square \rightarrow \boxed{\text{S}}$	$9 \times 4 = \square \rightarrow \boxed{\text{T}}$
$2 \times 1 = \square \rightarrow \boxed{\text{R}}$	$5 \times 10 = \square \rightarrow \boxed{\text{Y}}$	$11 \times 11 = \square \rightarrow \boxed{\text{F}}$	
$10 \times 10 = \square \rightarrow \boxed{\text{U}}$	$4 \times 7 = \square \rightarrow \boxed{\text{N}}$	$3 \times 11 = \square \rightarrow \boxed{\text{O}}$	
$8 \times 7 = \square \rightarrow \boxed{\text{C}}$	$10 \times 3 = \square \rightarrow \boxed{\text{B}}$		

Scratch space:

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

The dragon trainer split the fish rewards equally among the hatchlings.

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:

$60 \div 10 = \square$

$18 \div 6 = \square$

$14 \div 7 = \square$

$24 \div 3 = \square$

$16 \div 4 = \square$

$55 \div 5 = \square$

$40 \div 4 = \square$

$7 \div 1 = \square$

$24 \div 2 = \square$

$1 \div 1 = \square$

$36 \div 4 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain roared lightning into the sky, then swung a crystal tail.
2. The villain sprayed acid on the shield, then deflected spears with iron scales.
3. The villain flapped gale wings over the peak, then lit up a flame aura.
4. The villain spit magma at the gates, then lit up a flame aura.
5. The villain sprayed acid on the shield, then vanished into a smoke screen.
6. The villain blasted frost across the cave, then vanished into a smoke screen.
7. The villain blasted frost across the cave, then deflected spears with iron scales.
8. The villain roared lightning into the sky, then vanished into a smoke screen.
9. The villain sprayed acid on the shield, then lit up a flame aura.
10. The villain sprayed acid on the shield, then shrieked a sonic screech.
11. The villain roared lightning into the sky, then deflected spears with iron scales.
12. The villain spit magma at the gates, then swung a crystal tail.

Answer Key

The Mystery of the Rogue Dragon

Culprit: Scorch

Acid Spit · Smoke Screen · Right-clawed · Ruby Crest · Starlight Gem

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT HAVE A SONIC SCREECH"

Round 2,326 to the nearest hundred = 2300 (T) · Round 682 to the nearest hundred = 700 (I) · Round 4,703 to the nearest thousand = 5000 (N) · Round 48 to the nearest ten = 50 (R) · Round 1,270 to the nearest hundred = 1300 (L) · Round 134 to the nearest ten = 130 (C) · Round 180 to the nearest hundred = 200 (O) · Round 348 to the nearest hundred = 300 (V) · Round 2,919 to the nearest hundred = 2900 (D) · Round 167 to the nearest ten = 170 (E) · Round 86 to the nearest ten = 90 (H) · Round 4,338 to the nearest hundred = 4300 (S) · Round 28 to the nearest ten = 30 (A)

Clue 2 (Addition): "RIGHT CLAW MARKS WERE LEFT NEAR THE TREASURE"

1472 + 2906 = 4378 (R) · 1542 + 777 = 2319 (L) · 4874 + 3434 = 8308 (E) · 4038 + 5028 = 9066 (S) · 3307 + 5744 = 9051 (M) · 4024 + 4149 = 8173 (W) · 2473 + 3258 = 5731 (U) · 3000 + 6797 = 9797 (N) · 2452 + 2879 = 5331 (I) · 2803 + 6283 = 9086 (H) · 1848 + 1357 = 3205 (F) · 4423 + 4901 = 9324 (G) · 4505 + 5177 = 9682 (T) · 6309 + 2972 = 9281 (K) · 4741 + 3735 = 8476 (A) · 2647 + 4092 = 6739 (C)

Clue 3 (Subtraction): "A STARLIGHT GEM REFLECTED THE FIRE BLAST"

4403 - 1784 = 2619 (A) · 6844 - 301 = 6543 (C) · 9601 - 4723 = 4878 (D) · 11536 - 2974 = 8562 (I) · 9552 - 4182 = 5370 (R) · 11783 - 3846 = 7937 (S) · 9672 - 3511 = 6161 (T) · 2703 - 1181 = 1522 (L) · 4493 - 2067 = 2426 (M) · 8017 - 2972 = 5045 (H) · 1490 - 354 = 1136 (B) · 8062 - 4326 = 3736 (G) · 7848 - 3426 = 4422 (E) · 8812 - 3940 = 4872 (F)

Clue 4 (Multiplication facts (1-12)): "A RUBY CREST SCALE FELL ON THE MOUNTAIN"

$7 \times 6 = 42$ (A) · $1 \times 3 = 3$ (H) · $7 \times 7 = 49$ (E) · $1 \times 9 = 9$ (L) · $5 \times 5 = 25$ (I) · $2 \times 4 = 8$ (M) · $6 \times 4 = 24$ (S) · $9 \times 4 = 36$ (T) · $2 \times 1 = 2$ (R) · $5 \times 10 = 50$ (Y) · $11 \times 11 = 121$ (F) · $10 \times 10 = 100$ (U) · $4 \times 7 = 28$ (N) · $3 \times 11 = 33$ (O) · $8 \times 7 = 56$ (C) · $10 \times 3 = 30$ (B)

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

$60 \div 10 = 6$ · $18 \div 6 = 3$ · $14 \div 7 = 2$ · $24 \div 3 = 8$ · $16 \div 4 = 4$ · $55 \div 5 = 11$ · $40 \div 4 = 10$ · $7 \div 1 = 7$ · $24 \div 2 = 12$ · $1 \div 1 = 1$ · $36 \div 4 = 9$