



Mystery of the Titan Rune

Grade 5 math · Addition, Subtraction, Multiplication, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

A colossal dark titan has breached the ancient rune temple on Kaiju Island. The defense squad must decode the clues before the titan crushes the elemental sanctuary.

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 Shadow Titan is _____

Possible suspects

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

NAME	KAIJU ATTACK	ENCHANTED RELIC	DOMINANT HAND	AURA CREST	BANISHMENT ITEM
Tori	Earth Tremor	Sapphire Blade	Left Handed	Frost Silver	Moon Runes
Nora	Atomic Breath	Sapphire Blade	Right Handed	Spiky Obsidian	Moon Runes
Jax	Atomic Breath	Opal Ring	Left Handed	Spiky Obsidian	Moon Runes
Leo	Thunder Roar	Opal Ring	Left Handed	Spiky Obsidian	Sun Crystals
Seth	Plasma Slash	Jade Pendant	Left Handed	Spiky Obsidian	Sun Crystals
Kaito	Plasma Slash	Amber Crown	Right Handed	Spiky Obsidian	Sun Crystals
Rex	Shadow Howl	Ruby Shield	Right Handed	Frost Silver	Sun Crystals
Hugo	Shadow Howl	Opal Ring	Left Handed	Glowing Crimson	Moon Runes
Brock	Plasma Slash	Ruby Shield	Left Handed	Spiky Obsidian	Sun Crystals
Wade	Atomic Breath	Amber Crown	Left Handed	Spiky Obsidian	Sun Crystals
Damon	Earth Tremor	Opal Ring	Left Handed	Glowing Crimson	Sun Crystals
Roman	Earth Tremor	Amber Crown	Left Handed	Frost Silver	Moon Runes
Zane	Plasma Slash	Ruby Shield	Right Handed	Spiky Obsidian	Moon Runes
Cole	Plasma Slash	Ruby Shield	Left Handed	Frost Silver	Sun Crystals
Vance	Shadow Howl	Opal Ring	Right Handed	Frost Silver	Sun Crystals
Ryan	Shadow Howl	Sapphire Blade	Right Handed	Spiky Obsidian	Moon Runes
Axel	Plasma Slash	Opal Ring	Right Handed	Spiky Obsidian	Sun Crystals
Silas	Shadow Howl	Sapphire Blade	Right Handed	Glowing Crimson	Star Powder
Zara	Plasma Slash	Opal Ring	Right Handed	Frost Silver	Star Powder
Elena	Atomic Breath	Ruby Shield	Left Handed	Spiky Obsidian	Sun Crystals
Maya	Earth Tremor	Sapphire Blade	Left Handed	Spiky Obsidian	Star Powder

CLUE 1
Addition

Donnie tallied the power stones found near the breached gate to measure the monster energy level.

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

T																T
8627	5343	6812	4729	2805	5714	5714	9572	2805	8749	7960	3153	6812	8879	8749	3153	8627

															T
2516	8879	6812	9572	7844	9572	7960	6812	5255	6812	8749	7960	9572	8749	8627	

$2604 + 6023 = \boxed{} \rightarrow \boxed{\mathbf{T}}$

$1691 + 825 = \boxed{} \rightarrow \boxed{\mathbf{U}}$

$4989 + 2971 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$1141 + 1664 = \boxed{} \rightarrow \boxed{\mathbf{I}}$

$2376 + 2353 = \boxed{} \rightarrow \boxed{\mathbf{V}}$

$1737 + 3977 = \boxed{} \rightarrow \boxed{\mathbf{L}}$

$2684 + 2571 = \boxed{} \rightarrow \boxed{\mathbf{P}}$

$4474 + 5098 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$3112 + 2231 = \boxed{} \rightarrow \boxed{\mathbf{H}}$

$3757 + 4992 = \boxed{} \rightarrow \boxed{\mathbf{N}}$

$2826 + 3986 = \boxed{} \rightarrow \boxed{\mathbf{E}}$

$4280 + 4599 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$4271 + 3573 = \boxed{} \rightarrow \boxed{\mathbf{J}}$

$1097 + 2056 = \boxed{} \rightarrow \boxed{\mathbf{O}}$

Scratch space:

CLUE 2

Subtraction

Roman calculated the drop in temple shields after the second titan stomp reduced total power.

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

T				T	T												T
1028	6372	4767	1450	1028	1028	1450	4645	7440	4767	4456	1904	1450	3143	5338	4767	7758	1028

6372	1450	4672	2216	4767	2216

$$3113 - 2085 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$11360 - 4988 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$7270 - 2814 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$11411 - 3653 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$7971 - 4828 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1834 - 384 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2311 - 407 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$9692 - 4354 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$11303 - 3863 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$7087 - 2415 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$4724 - 79 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$9315 - 4548 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3332 - 1116 = \boxed{} \rightarrow \boxed{\text{D}}$$

Scratch space:

CLUE 3

Multiplication facts (1-12)

Ryan inspected several rows of enchanted wards to find how many rune seals remained unbroken.

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

S						S				S								
77	55	36	21	9	56	77	72	96	54	77	32	84	100	84	36	32	84	32
72	33	84	72	84	27	44	54	84										

$11 \times 7 = \square \rightarrow \boxed{\text{S}}$

$7 \times 3 = \square \rightarrow \boxed{\text{C}}$

$12 \times 3 = \square \rightarrow \boxed{\text{N}}$

$12 \times 7 = \square \rightarrow \boxed{\text{E}}$

$9 \times 1 = \square \rightarrow \boxed{\text{R}}$

$12 \times 8 = \square \rightarrow \boxed{\text{A}}$

$10 \times 10 = \square \rightarrow \boxed{\text{F}}$

$8 \times 9 = \square \rightarrow \boxed{\text{T}}$

$9 \times 3 = \square \rightarrow \boxed{\text{M}}$

$11 \times 5 = \square \rightarrow \boxed{\text{U}}$

$11 \times 3 = \square \rightarrow \boxed{\text{H}}$

$8 \times 7 = \square \rightarrow \boxed{\text{Y}}$

$4 \times 11 = \square \rightarrow \boxed{\text{P}}$

$9 \times 6 = \square \rightarrow \boxed{\text{L}}$

$8 \times 4 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 4
Fractions of a number

Gabe determined what fraction of the temple magic supply was drained during the clash.

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

O																	
19	27	12	18	21	18	17	4	12	34	18	30	11	12	8	11	7	11
29	11	22	20	17	20	20	35	11	12	23	11	4	11				

$1/10 \text{ of } 190 = \square \rightarrow \boxed{\text{O}}$

$1/4 \text{ of } 116 = \square \rightarrow \boxed{\text{L}}$

$1/10 \text{ of } 180 = \square \rightarrow \boxed{\text{I}}$

$2/4 \text{ of } 14 = \square \rightarrow \boxed{\text{R}}$

$1/2 \text{ of } 22 = \square \rightarrow \boxed{\text{E}}$

$2/3 \text{ of } 18 = \square \rightarrow \boxed{\text{S}}$

$2/5 \text{ of } 75 = \square \rightarrow \boxed{\text{K}}$

$2/10 \text{ of } 110 = \square \rightarrow \boxed{\text{F}}$

$2/8 \text{ of } 140 = \square \rightarrow \boxed{\text{H}}$

$1/2 \text{ of } 40 = \square \rightarrow \boxed{\text{T}}$

$2/6 \text{ of } 12 = \square \rightarrow \boxed{\text{N}}$

$2/8 \text{ of } 32 = \square \rightarrow \boxed{\text{W}}$

$4/10 \text{ of } 85 = \square \rightarrow \boxed{\text{P}}$

$5/10 \text{ of } 34 = \square \rightarrow \boxed{\text{A}}$

$6/10 \text{ of } 45 = \square \rightarrow \boxed{\text{B}}$

$1/4 \text{ of } 84 = \square \rightarrow \boxed{\text{D}}$

$1/5 \text{ of } 115 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

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

The guardians split the remaining defensive crystals equally among five barricade posts.

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:

$9 \div 9 = \boxed{}$

$20 \div 5 = \boxed{}$

$36 \div 6 = \boxed{}$

$110 \div 10 = \boxed{}$

$48 \div 4 = \boxed{}$

$20 \div 4 = \boxed{}$

$56 \div 7 = \boxed{}$

$60 \div 6 = \boxed{}$

$22 \div 11 = \boxed{}$

$63 \div 7 = \boxed{}$

$24 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain released a thunderous roar, then flashed an opal ring.
2. The villain summoned a shadow howl, then channeled an amber crown.
3. The villain unleashed an atomic blast, then swung a sapphire blade.
4. The villain unleashed an atomic blast, then channeled an amber crown.
5. The villain summoned a shadow howl, then swung a sapphire blade.
6. The villain slashed with plasma energy, then raised a ruby shield.
7. The villain unleashed an atomic blast, then raised a ruby shield.
8. The villain caused a violent tremor, then swung a sapphire blade.
9. The villain unleashed an atomic blast, then activated a jade pendant.
10. The villain slashed with plasma energy, then swung a sapphire blade.
11. The villain released a thunderous roar, then raised a ruby shield.
12. The villain slashed with plasma energy, then flashed an opal ring.

Answer Key

Mystery of the Titan Rune

Culprit: Elena

Atomic Breath · Ruby Shield · Left Handed · Spiky Obsidian · Sun Crystals

Trail: Start 21 → Clue 1 20 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A JADE PENDANT"

$2604 + 6023 = 8627$ (T) · $1691 + 825 = 2516$ (U) · $4989 + 2971 = 7960$ (D) · $1141 + 1664 = 2805$ (I) · $2376 + 2353 = 4729$ (V) · $1737 + 3977 = 5714$ (L) · $2684 + 2571 = 5255$ (P) · $4474 + 5098 = 9572$ (A) · $3112 + 2231 = 5343$ (H) · $3757 + 4992 = 8749$ (N) · $2826 + 3986 = 6812$ (E) · $4280 + 4599 = 8879$ (S) · $4271 + 3573 = 7844$ (J) · $1097 + 2056 = 3153$ (O)

Clue 2 (Subtraction): "THE ATTACKER WAS LEFT HANDED"

$3113 - 2085 = 1028$ (T) · $11360 - 4988 = 6372$ (H) · $7270 - 2814 = 4456$ (R) · $11411 - 3653 = 7758$ (F) · $7971 - 4828 = 3143$ (S) · $1834 - 384 = 1450$ (A) · $2311 - 407 = 1904$ (W) · $9692 - 4354 = 5338$ (L) · $11303 - 3863 = 7440$ (K) · $7087 - 2415 = 4672$ (N) · $4724 - 79 = 4645$ (C) · $9315 - 4548 = 4767$ (E) · $3332 - 1116 = 2216$ (D)

Clue 3 (Multiplication facts (1-12)): "SUN CRYSTALS DEFENDED THE TEMPLE"

$11 \times 7 = 77$ (S) · $7 \times 3 = 21$ (C) · $12 \times 3 = 36$ (N) · $12 \times 7 = 84$ (E) · $9 \times 1 = 9$ (R) · $12 \times 8 = 96$ (A) · $10 \times 10 = 100$ (F) · $8 \times 9 = 72$ (T) · $9 \times 3 = 27$ (M) · $11 \times 5 = 55$ (U) · $11 \times 3 = 33$ (H) · $8 \times 7 = 56$ (Y) · $4 \times 11 = 44$ (P) · $9 \times 6 = 54$ (L) · $8 \times 4 = 32$ (D)

Clue 4 (Fractions of a number): "OBSIDIAN SPIKES WERE LEFT AT THE SCENE"

$1/10$ of 190 = 19 (O) · $1/4$ of 116 = 29 (L) · $1/10$ of 180 = 18 (I) · $2/4$ of 14 = 7 (R) · $1/2$ of 22 = 11 (E) · $2/3$ of 18 = 12 (S) · $2/5$ of 75 = 30 (K) · $2/10$ of 110 = 22 (F) · $2/8$ of 140 = 35 (H) · $1/2$ of 40 = 20 (T) · $2/6$ of 12 = 4 (N) · $2/8$ of 32 = 8 (W) · $4/10$ of 85 = 34 (P) · $5/10$ of 34 = 17 (A) · $6/10$ of 45 = 27 (B) · $1/4$ of 84 = 21 (D) · $1/5$ of 115 = 23 (C)

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

$9 \div 9 = 1$ · $20 \div 5 = 4$ · $36 \div 6 = 6$ · $110 \div 10 = 11$ · $48 \div 4 = 12$ · $20 \div 4 = 5$ · $56 \div 7 = 8$ · $60 \div 6 = 10$ · $22 \div 11 = 2$ · $63 \div 7 = 9$ · $24 \div 8 = 3$