



The Clash of the Titans

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

Detective: _____ **Date:** _____

An alarm blares across the Neo-Tokyo Bay! A giant, rogue Titan has broken through the underwater containment wall. The beast is charging toward the city center, and only the G-Force Defense Team can stop it. To deploy the correct counter-measures, you must analyze the battle data, track the creature's energy signature, and identify exactly which Titan is leading the assault before it reaches the inner harbor.

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 Titan is _____

Possible suspects

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

NAME	PRIMARY WEAPON	SECONDARY ABILITY	BATTLE STANCE	DORSAL PLATE GLOW	TACTICAL WEAKNESS
Baragon	Sonic Screech	Acid Spit	Leans Left	Green Glow	High Frequency
Destoroyah	Atomic Breath	EMP Pulse	Leans Right	Red Glow	Heavy Gravity
SpaceGodzilla	Lightning Strike	Magma Shield	Leans Left	Red Glow	High Frequency
Gigan	Gravity Beam	EMP Pulse	Leans Left	Red Glow	Cold Temperature
Gorosaurus	Atomic Breath	Magma Shield	Leans Left	Green Glow	High Frequency
Rodan	Lightning Strike	Spore Cloud	Leans Left	Red Glow	Cold Temperature
Titanosaurus	Atomic Breath	Acid Spit	Leans Left	Red Glow	Cold Temperature
Battra	Gravity Beam	EMP Pulse	Leans Left	Green Glow	Heavy Gravity
Mechagodzilla	Sonic Screech	Acid Spit	Leans Left	Green Glow	Heavy Gravity
King Caesar	Sonic Screech	EMP Pulse	Leans Left	Red Glow	Cold Temperature
Mothra	Sonic Screech	Spore Cloud	Leans Left	Red Glow	Heavy Gravity
Biollante	Atomic Breath	Magma Shield	Leans Right	Red Glow	High Frequency
Godzilla	Atomic Breath	Frost Breath	Leans Left	Red Glow	Cold Temperature
Varan	Tail Slam	Spore Cloud	Leans Left	Blue Glow	Cold Temperature
Ebirah	Atomic Breath	Spore Cloud	Leans Left	Blue Glow	Cold Temperature
Megaguirus	Tail Slam	Frost Breath	Leans Left	Blue Glow	Cold Temperature
Megalon	Tail Slam	EMP Pulse	Leans Right	Red Glow	High Frequency
Kumonga	Tail Slam	Acid Spit	Leans Right	Red Glow	Cold Temperature
Hedorah	Gravity Beam	Spore Cloud	Leans Right	Blue Glow	High Frequency
Kamacuras	Lightning Strike	EMP Pulse	Leans Right	Red Glow	Cold Temperature
Zilla	Atomic Breath	EMP Pulse	Leans Left	Blue Glow	Cold Temperature

CLUE 1 Addition

Commander Chen must calculate the total radioactive output of the titan. Scientists tally the energy readings from three separate sensors to find the sum.

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

T 3126	4994	8701	T 3126	7636	T 3126	8674	4356	6144	6499	8701	6642	4356	6499	T 3126	2553	6642	8701
4632	4434	6499	6642	T 3126	5036	4434	8701	8674	T 3126	4994							

$1752 + 1374 = \square \rightarrow \text{T}$

$1326 + 3030 = \square \rightarrow \text{N}$

$3573 + 5128 = \square \rightarrow \text{E}$

$2351 + 4148 = \square \rightarrow \text{O}$

$2256 + 3888 = \square \rightarrow \text{D}$

$3947 + 4727 = \square \rightarrow \text{A}$

$2324 + 2308 = \square \rightarrow \text{F}$

$849 + 1704 = \square \rightarrow \text{U}$

$2845 + 2149 = \square \rightarrow \text{H}$

$3883 + 3753 = \square \rightarrow \text{I}$

$2516 + 2520 = \square \rightarrow \text{B}$

$2629 + 1805 = \square \rightarrow \text{R}$

$2976 + 3666 = \square \rightarrow \text{S}$

Scratch space:

CLUE 2

Subtraction

The Super-X ship fires its defense missiles at the monster. Pilots subtract the damaged armor points from the titan's total health to see if it is retreating.

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

T								T										T
7581	4082	7660	7556	7660	1425	4152	7581	6676	7660	1425	5146	4152	6676	7660	5363	7581		

					T							
6063	4082	7660	5146	3438	7581	4018	4082	1425	1299	3098	7660	4152

$12034 - 4453 = \square \rightarrow \text{[T]}$

$12245 - 4585 = \square \rightarrow \text{[E]}$

$8028 - 4590 = \square \rightarrow \text{[I]}$

$9322 - 3259 = \square \rightarrow \text{[W]}$

$9504 - 1948 = \square \rightarrow \text{[B]}$

$8435 - 1759 = \square \rightarrow \text{[L]}$

$4573 - 555 = \square \rightarrow \text{[C]}$

$7377 - 3295 = \square \rightarrow \text{[H]}$

$6373 - 2221 = \square \rightarrow \text{[S]}$

$7480 - 4382 = \square \rightarrow \text{[G]}$

$2832 - 1407 = \square \rightarrow \text{[A]}$

$6599 - 1236 = \square \rightarrow \text{[F]}$

$1892 - 593 = \square \rightarrow \text{[R]}$

$8903 - 3757 = \square \rightarrow \text{[N]}$

Scratch space:

Multiplication facts (1-12)

To trap the rampaging giant, the defense team deploys an electric grid. They must multiply the number of shock towers by the energy generators per row.

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

100 8 55 49 121 110 56 1 110 16 108 121 44 16 110 27 121 8 1 27

121 90 110 121 45 121 108 120

$10 \times 10 = \boxed{} \rightarrow \boxed{\text{C}}$

$$10 \times 9 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4 \times 4 = \boxed{} \rightarrow \mathbf{R}$$

$1 \times 1 = \boxed{} \rightarrow \boxed{\text{P}}$

$12 \times 9 = \square \rightarrow \boxed{\mathbf{A}}$

$$10 \times 12 = \boxed{} \rightarrow \boxed{\text{N}}$$

$7 \times 7 = \square \rightarrow \mathbf{D}$

$$3 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$11 \times 10 = \boxed{} \rightarrow \boxed{\text{E}}$

$8 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{M}}$

$$5 \times 9 = \boxed{} \rightarrow \boxed{1}$$

$1 \times 8 = \boxed{} \rightarrow \boxed{0}$

$11 \times 11 = \boxed{} \rightarrow \boxed{\text{T}}$

$4 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{U}}$

$5 \times 11 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4

Fractions of a number

A fleet of fighter jets rushes to defend the bay. Only a fraction of the squad has the special sonic cannons ready to fire, so the commander calculates the exact number.

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

T																			
27	28	32	24	15	13	38	21	25	2	25	21	27	32	38	28	21	8	32	
21	13	32	24	4	25	15	39												

$$9/10 \text{ of } 30 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1/5 \text{ of } 105 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$1/4 \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$2/6 \text{ of } 6 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$1/2 \text{ of } 50 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$1/5 \text{ of } 65 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1/3 \text{ of } 96 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2/10 \text{ of } 20 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$6/10 \text{ of } 25 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$2/10 \text{ of } 190 = \boxed{} \rightarrow \boxed{\text{S}}$$

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

$$1/5 \text{ of } 195 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$2/10 \text{ of } 120 = \boxed{} \rightarrow \boxed{\text{D}}$$

Scratch space:

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

The city needs to distribute freeze-ray fuel canisters equally among the defense outposts. The logistics team divides the total fuel supply by the number of active bunkers.

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:

$70 \div 10 = \boxed{}$

$60 \div 12 = \boxed{}$

$18 \div 2 = \boxed{}$

$20 \div 5 = \boxed{}$

$4 \div 2 = \boxed{}$

$7 \div 7 = \boxed{}$

$18 \div 6 = \boxed{}$

$30 \div 5 = \boxed{}$

$44 \div 4 = \boxed{}$

$110 \div 11 = \boxed{}$

$48 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain smashes the downtown harbor, then blasts the research lab dome.
2. The villain stomps the military defense line, then crushes the emergency shelter doors.
3. The villain smashes the downtown harbor, then crushes the emergency shelter doors.
4. The villain rips through the suspension bridge, then melts the evacuation train tracks.
5. The villain topples the tallest skyscraper, then blasts the research lab dome.
6. The villain rips through the suspension bridge, then crushes the emergency shelter doors.
7. The villain stomps the military defense line, then melts the evacuation train tracks.
8. The villain stomps the military defense line, then blasts the research lab dome.
9. The villain smashes the downtown harbor, then vaporizes the deep sea submarine.
10. The villain stomps the military defense line, then vaporizes the deep sea submarine.
11. The villain stomps the military defense line, then destroys the radar array tower.
12. The villain shatters the geothermal power grid, then melts the evacuation train tracks.

Answer Key

The Clash of the Titans

Culprit: Gigan

Gravity Beam · EMP Pulse · Leans Left · Red Glow · Cold Temperature

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE TITAN DOES NOT USE FROST BREATH"

$1752 + 1374 = 3126$ (T) · $1326 + 3030 = 4356$ (N) · $3573 + 5128 = 8701$ (E) · $2351 + 4148 = 6499$ (O) · $2256 + 3888 = 6144$ (D) · $3947 + 4727 = 8674$ (A) · $2324 + 2308 = 4632$ (F) · $849 + 1704 = 2553$ (U) · $2845 + 2149 = 4994$ (H) · $3883 + 3753 = 7636$ (I) · $2516 + 2520 = 5036$ (B) · $2629 + 1805 = 4434$ (R) · $2976 + 3666 = 6642$ (S)

Clue 2 (Subtraction): "THE BEAST LEANS LEFT WHEN IT CHARGES"

$12034 - 4453 = 7581$ (T) · $12245 - 4585 = 7660$ (E) · $8028 - 4590 = 3438$ (I) · $9322 - 3259 = 6063$ (W) · $9504 - 1948 = 7556$ (B) · $8435 - 1759 = 6676$ (L) · $4573 - 555 = 4018$ (C) · $7377 - 3295 = 4082$ (H) · $6373 - 2221 = 4152$ (S) · $7480 - 4382 = 3098$ (G) · $2832 - 1407 = 1425$ (A) · $6599 - 1236 = 5363$ (F) · $1892 - 593 = 1299$ (R) · $8903 - 3757 = 5146$ (N)

Clue 3 (Multiplication facts (1-12)): "COLD TEMPERATURE STOPS THE TITAN"

$10 \times 10 = 100$ (C) · $10 \times 9 = 90$ (H) · $4 \times 4 = 16$ (R) · $1 \times 1 = 1$ (P) · $12 \times 9 = 108$ (A) · $10 \times 12 = 120$ (N) · $7 \times 7 = 49$ (D) · $3 \times 9 = 27$ (S) · $11 \times 10 = 110$ (E) · $8 \times 7 = 56$ (M) · $5 \times 9 = 45$ (I) · $1 \times 8 = 8$ (O) · $11 \times 11 = 121$ (T) · $4 \times 11 = 44$ (U) · $5 \times 11 = 55$ (L)

Clue 4 (Fractions of a number): "THE DORSAL PLATES HAVE A RED GLOW"

$9/10$ of 30 = 27 (T) · $1/5$ of 105 = 21 (A) · $1/4$ of 32 = 8 (V) · $2/6$ of 6 = 2 (P) · $1/2$ of 50 = 25 (L) · $1/5$ of 65 = 13 (R) · $1/3$ of 96 = 32 (E) · $2/10$ of 20 = 4 (G) · $6/10$ of 25 = 15 (O) · $2/10$ of 190 = 38 (S) · $1/6$ of 168 = 28 (H) · $1/5$ of 195 = 39 (W) · $2/10$ of 120 = 24 (D)

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

$70 \div 10 = 7$ · $60 \div 12 = 5$ · $18 \div 2 = 9$ · $20 \div 5 = 4$ · $4 \div 2 = 2$ · $7 \div 7 = 1$ · $18 \div 6 = 3$ · $30 \div 5 = 6$ · $44 \div 4 = 11$ · $110 \div 11 = 10$ · $48 \div 6 = 8$