



The Cross-World Energy Heist

Grade 4 math · Multiplication, Rounding, Place value, Fractions of a number, Division · Reading level grades 3-4

Detective: _____ Date: _____

A mysterious rogue fighter has stolen a glowing dragon egg from the Crossroads Market! Lloyd and the team of new heroes need your math skills to track down the culprit before the egg hatches in the wrong hands.

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 fighter is _____

Possible suspects

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

NAME	ELEMENTAL POWER	MECH GEAR	COMBAT STANCE	NINJA HEADGEAR	CRITICAL WEAKNESS
Lobbo	Lightning Spin	Invisibility	Right-handed grip	Spiky red hair	Lava dragon juice
Zane	Tech-Build	Chrono-Slow	Right-handed grip	Silver metal mask	Sora tech tracker
Sora	Lightning Spin	Chrono-Slow	Right-handed grip	Spiky red hair	Lava dragon juice
Wyldfyre	Earth Quake	Chrono-Slow	Right-handed grip	Spiky red hair	Sora tech tracker
Riyu	Earth Quake	Invisibility	Right-handed grip	Silver metal mask	Lava dragon juice
Nya	Heatwave Flame	Shockwave Blast	Right-handed grip	Silver metal mask	Lava dragon juice
Nokt	Tech-Build	Invisibility	Left-handed grip	Spiky red hair	Lava dragon juice
Galt	Earth Quake	Gravity Grapple	Right-handed grip	Silver metal mask	Sora tech tracker
Arin	Heatwave Flame	Glider Wings	Left-handed grip	Spiky red hair	High pitch whistle
Rapton	Water Torrent	Invisibility	Right-handed grip	Silver metal mask	High pitch whistle
Zehra	Heatwave Flame	Chrono-Slow	Right-handed grip	Silver metal mask	Lava dragon juice
Cinder	Heatwave Flame	Invisibility	Right-handed grip	Spiky red hair	Sora tech tracker
Ras	Water Torrent	Chrono-Slow	Right-handed grip	Silver metal mask	Lava dragon juice
Bonzle	Heatwave Flame	Shockwave Blast	Left-handed grip	Horned green hood	Sora tech tracker
Kreel	Lightning Spin	Gravity Grapple	Right-handed grip	Silver metal mask	High pitch whistle
Cole	Tech-Build	Gravity Grapple	Right-handed grip	Silver metal mask	Lava dragon juice
Kai	Earth Quake	Glider Wings	Left-handed grip	Spiky red hair	Lava dragon juice
Taz	Water Torrent	Invisibility	Right-handed grip	Horned green hood	High pitch whistle
Beatrix	Tech-Build	Glider Wings	Left-handed grip	Silver metal mask	Lava dragon juice
Geo	Tech-Build	Shockwave Blast	Left-handed grip	Silver metal mask	Lava dragon juice
Frak	Water Torrent	Gravity Grapple	Right-handed grip	Horned green hood	Sora tech tracker

CLUE 1

Multiplication facts (1-12)

Arin counts rows of Photac energy cores in the imperial ship. Each row has the same number of cores. Multiply them to find the total power level and unlock the first clue!

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

T																	T
108	3	4	100	144	18	18	24	144	54	66	88	4	80	54	88	108	
3	24	100	4	144	54	100	144	80	144	44	144	18	144	108	36		

$12 \times 9 = \square \rightarrow \boxed{\text{T}}$

$8 \times 10 = \square \rightarrow \boxed{\text{S}}$

$2 \times 9 = \square \rightarrow \boxed{\text{L}}$

$1 \times 4 = \square \rightarrow \boxed{\text{E}}$

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

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

$12 \times 12 = \square \rightarrow \boxed{\text{I}}$

$3 \times 1 = \square \rightarrow \boxed{\text{H}}$

$8 \times 11 = \square \rightarrow \boxed{\text{O}}$

$6 \times 11 = \square \rightarrow \boxed{\text{D}}$

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

$4 \times 6 = \square \rightarrow \boxed{\text{A}}$

$9 \times 4 = \square \rightarrow \boxed{\text{Y}}$

Scratch space:

CLUE 2 Rounding

Sora checks her mech radar screen. The distant signal jumps quickly, so she rounds the power number to the nearest ten to pinpoint the enemy location and read the trace.

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

T															
2000	230	30	3000	500	4300	4300	90	500	200	130	170	30	170	90	
				T											
300	500	900	230	2000	230	90	200	9000	30	9000	900	300	500	1300	

Round 2,256 to the nearest thousand → **T**

Round 229 to the nearest ten → **H**

Round 854 to the nearest hundred → **G**

Round 242 to the nearest hundred → **N**

Round 272 to the nearest hundred → **R**

Round 28 to the nearest ten → **E**

Round 1,252 to the nearest hundred → **P**

Round 2,669 to the nearest thousand → **V**

Round 4,319 to the nearest hundred → **L**

Round 9,072 to the nearest thousand → **D**

Round 529 to the nearest hundred → **I**

Round 90 to the nearest ten → **A**

Round 134 to the nearest ten → **U**

Round 170 to the nearest ten → **S**

Scratch space:

CLUE 3 Place value

Inside the ancient Dragon Temple, a locked panel demands a specific security code. Lloyd looks at the digit in the hundreds place to crack the lock and find this clue.

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

L																L	L
4000	7000	600	7000	20	6000	7000	50	9000	30	400	10	700	90	100	8000	700	4000

5000	500	9000	800	500	60	100	40	9000

What is the value of the 4 in 14,928? →

What is the value of the 6 in 768? →

What is the value of the 9 in 691? →

What is the value of the 4 in 9,412? →

What is the value of the 2 in 7,025? →

What is the value of the 7 in 1,738? →

What is the value of the 5 in 8,547? →

What is the value of the 5 in 85,426? →

What is the value of the 1 in 128? →

What is the value of the 4 in 6,749? →

What is the value of the 8 in 8,213? →

What is the value of the 1 in 4,013? →

What is the value of the 8 in 853? →

What is the value of the 3 in 431? →

What is the value of the 9 in 9,276? →

What is the value of the 5 in 4,850? →

What is the value of the 6 in 36,280? →

What is the value of the 6 in 682? →

What is the value of the 7 in 97,343? →

Scratch space:

CLUE 4

Wyldfyre gathers a bunch of glowing heat crystals. She needs a specific fraction of the total bunch to power up her gauntlet and melt the shield hiding a clue.

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

Diagram showing the sequence of numbers: 18, 20, 31, 8, 32, 35, 22, 32, 13, 17, 31, 22, 17, 18, 10, 40, 25, 20, 24, 18. The numbers 18, 18, and 18 are highlighted in orange boxes with an 'S' inside, indicating they are the same number.

$\frac{3}{4}$ of 24 = $\rightarrow$ **S**

2/8 of 124 = → **L**

$3/6$ of 80 = $\rightarrow$ **C**

7/10 of 50 = → **R**

2/6 of 39 = → **T**

$1/10$ of 170 = $\rightarrow$ **A**

8/10 of 25 = →

8/10 of 40 = → **E**

3/10 of 40 = → **F**

5/10 of 46 = → **N**

4/6 of 36 = → **P**

$\frac{1}{8}$ of 80 = $\rightarrow$ **K**

$4/8$ of $72 = \square \rightarrow \boxed{\text{D}}$

5/10 of 50 = → **H**

$\frac{1}{5}$ of 185 = $\rightarrow$ **W**

$2/6$ of $15 = \square \rightarrow \boxed{\text{U}}$

5/10 of 32 = → ☒

2/10 of 40 = →

4/10 of 55 = → **M**

Scratch space:

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

Riyu has a bundle of sweet star-fruit. He wants to divide them equally among his ninja friends. Help him share the treats to reveal the final piece of the mystery!

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:

$60 \div 5 = \boxed{}$

$48 \div 6 = \boxed{}$

$16 \div 4 = \boxed{}$

$24 \div 4 = \boxed{}$

$30 \div 6 = \boxed{}$

$35 \div 5 = \boxed{}$

$3 \div 3 = \boxed{}$

$55 \div 5 = \boxed{}$

$90 \div 10 = \boxed{}$

$33 \div 11 = \boxed{}$

$90 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain creates a massive lightning tornado, then slows down time to slip past the lasers.
2. The villain summons a heavy wave of glowing water, then slows down time to slip past the lasers.
3. The villain summons a heavy wave of glowing water, then flies away on sleek silver glider wings.
4. The villain shoots a blast of pure fire, then slows down time to slip past the lasers.
5. The villain creates a massive lightning tornado, then escapes using a magnetic gravity grapple.
6. The villain builds a giant metal defense wall, then knocks back the guards with a shockwave blast.
7. The villain cracks the ground with raw earth force, then slows down time to slip past the lasers.
8. The villain builds a giant metal defense wall, then escapes using a magnetic gravity grapple.
9. The villain summons a heavy wave of glowing water, then blends into the shadows with active camouflage.
10. The villain cracks the ground with raw earth force, then blends into the shadows with active camouflage.
11. The villain builds a giant metal defense wall, then flies away on sleek silver glider wings.
12. The villain shoots a blast of pure fire, then knocks back the guards with a shockwave blast.

Answer Key

The Cross-World Energy Heist

Culprit: Ras

Water Torrent · Chrono-Slow · Right-handed grip · Silver metal mask · Lava dragon juice

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT HAVE INVISIBILITY"

$12 \times 9 = 108$ (T) · $8 \times 10 = 80$ (S) · $2 \times 9 = 18$ (L) · $1 \times 4 = 4$ (E) · $11 \times 4 = 44$ (B) · $10 \times 10 = 100$ (V) · $12 \times 12 = 144$ (I) · $3 \times 1 = 3$ (H) · $8 \times 11 = 88$ (O) · $6 \times 11 = 66$ (D) · $9 \times 6 = 54$ (N) · $4 \times 6 = 24$ (A) · $9 \times 4 = 36$ (Y)

Clue 2 (Rounding): "THE VILLAIN USES A RIGHT HANDED GRIP"

Round 2,256 to the nearest thousand = 2000 (T) · Round 229 to the nearest ten = 230 (H) · Round 854 to the nearest hundred = 900 (G) · Round 242 to the nearest hundred = 200 (N) · Round 272 to the nearest hundred = 300 (R) · Round 28 to the nearest ten = 30 (E) · Round 1,252 to the nearest hundred = 1300 (P) · Round 2,669 to the nearest thousand = 3000 (V) · Round 4,319 to the nearest hundred = 4300 (L) · Round 9,072 to the nearest thousand = 9000 (D) · Round 529 to the nearest hundred = 500 (I) · Round 90 to the nearest ten = 90 (A) · Round 134 to the nearest ten = 130 (U) · Round 170 to the nearest ten = 170 (S)

Clue 3 (Place value): "LAVA DRAGON JUICE WILL STOP THE FOE"

What is the value of the 4 in 14,928? = 4000 (L) · What is the value of the 6 in 768? = 60 (H) · What is the value of the 9 in 691? = 90 (C) · What is the value of the 4 in 9,412? = 400 (J) · What is the value of the 2 in 7,025? = 20 (D) · What is the value of the 7 in 1,738? = 700 (I) · What is the value of the 5 in 8,547? = 500 (T) · What is the value of the 5 in 85,426? = 5000 (S) · What is the value of the 1 in 128? = 100 (E) · What is the value of the 4 in 6,749? = 40 (F) · What is the value of the 8 in 8,213? = 8000 (W) · What is the value of the 1 in 4,013? = 10 (U) · What is the value of the 8 in 853? = 800 (P) · What is the value of the 3 in 431? = 30 (N) · What is the value of the 9 in 9,276? = 9000 (O) · What is the value of the 5 in 4,850? = 50 (G) · What is the value of the 6 in 36,280? = 6000 (R) · What is the value of the 6 in 682? = 600 (V) · What is the value of the 7 in 97,343? = 7000 (A)

Clue 4 (Fractions of a number): "SILVER METAL MASK CHIPS WERE FOUND"

$\frac{3}{4}$ of 24 = 18 (S) · $\frac{2}{8}$ of 124 = 31 (L) · $\frac{3}{6}$ of 80 = 40 (C) · $\frac{7}{10}$ of 50 = 35 (R) · $\frac{2}{6}$ of 39 = 13 (T) · $\frac{1}{10}$ of 170 = 17 (A) · $\frac{8}{10}$ of 25 = 20 (I) · $\frac{8}{10}$ of 40 = 32 (E) · $\frac{3}{10}$ of 40 = 12 (F) · $\frac{5}{10}$ of 46 = 23 (N) · $\frac{4}{6}$ of 36 = 24 (P) · $\frac{1}{8}$ of 80 = 10 (K) · $\frac{4}{8}$ of 72 = 36 (D) · $\frac{5}{10}$ of 50 = 25 (H) · $\frac{1}{5}$ of 185 = 37 (W) · $\frac{2}{6}$ of 15 = 5 (U) · $\frac{5}{10}$ of 32 = 16 (O) · $\frac{2}{10}$ of 40 = 8 (V) · $\frac{4}{10}$ of 55 = 22 (M)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Ras

$60 \div 5 = 12$ · $48 \div 6 = 8$ · $16 \div 4 = 4$ · $24 \div 4 = 6$ · $30 \div 6 = 5$ · $35 \div 5 = 7$ · $3 \div 3 = 1$ · $55 \div 5 = 11$ · $90 \div 10 = 9$ · $33 \div 11 = 3$ · $90 \div 9 = 10$