



The Great Starship Sabotage

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

Detective: _____ Date: _____

An alarm is blaring across the Star Defender! Someone has sneaked into the high-security bay and stolen the legendary Hyper-Blaster. With the Asteroid Raiders attacking our fleet with heavy laser fire, we need that weapon back to save the galaxy. Find the rogue pilot before they escape!

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 pilot is _____

Possible suspects

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

NAME	PRIMARY BLASTER	SHIELD SYSTEM	PILOT SUIT	VISOR COLOR	BLASTER WEAKNESS
Tessa Warp	Fusion Ray	Force Bubble	Beta Suit	Laser Red	Magnet Force
Kael Orbit	Plasma Pulse	Mirror Shield	Alpha Suit	Neon Green	Magnet Force
Rigg Rocket	Proton Wave	Force Bubble	Beta Suit	Cosmic Blue	Water Mist
Titus Flare	Laser Cannon	Gravity Wave	Beta Suit	Neon Green	Magnet Force
Bolt Spark	Plasma Pulse	Nano Plating	Beta Suit	Cosmic Blue	Water Mist
Zane Gravity	Plasma Pulse	Nano Plating	Beta Suit	Neon Green	EMP Pulse
Jax Starbolt	Ion Blaster	Gravity Wave	Alpha Suit	Neon Green	Magnet Force
Niko Solar	Plasma Pulse	Force Bubble	Alpha Suit	Laser Red	EMP Pulse
Zara Zenith	Proton Wave	Force Bubble	Beta Suit	Laser Red	Magnet Force
Echo Sound	Ion Blaster	Gravity Wave	Beta Suit	Laser Red	Magnet Force
Orion Swift	Ion Blaster	Mirror Shield	Alpha Suit	Cosmic Blue	Water Mist
Cruz Photon	Proton Wave	Stealth Cloak	Beta Suit	Cosmic Blue	Water Mist
Zephyr Zoom	Ion Blaster	Nano Plating	Beta Suit	Laser Red	Water Mist
Lyra Nebula	Proton Wave	Mirror Shield	Alpha Suit	Laser Red	Water Mist
Leo Void	Fusion Ray	Force Bubble	Beta Suit	Cosmic Blue	EMP Pulse
Nova Flare	Proton Wave	Stealth Cloak	Alpha Suit	Laser Red	Water Mist
Selene Lunar	Proton Wave	Nano Plating	Alpha Suit	Cosmic Blue	Water Mist
Jett Blast	Laser Cannon	Nano Plating	Beta Suit	Cosmic Blue	Water Mist
Rex Pulsar	Laser Cannon	Nano Plating	Beta Suit	Laser Red	Water Mist
Kira Cosmic	Plasma Pulse	Stealth Cloak	Alpha Suit	Neon Green	Magnet Force
Veda Comet	Plasma Pulse	Mirror Shield	Beta Suit	Cosmic Blue	Water Mist

CLUE 1

Our long range scanner can only show rounded numbers. Let us look at the ship distance log to narrow down our first big clue!

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

A number line from 0 to 10,000. The line is marked with boxes for numbers and their place values. The numbers are: 80, 900, 9000, 60, 6000, 300, 200, 40, 9000, 60, 5000, 40, 80, 4000, 60, 9000, 2000. The place values are: 8000, 50, 3000, 3000, 40, 3000, 60, 900, 50, 9000, 700, 200.

Round 78 to the nearest ten $\rightarrow$ **T**

Round 3,023 to the nearest thousand $\rightarrow$ **R**

Round 38 to the nearest ten $\rightarrow$

Round 4,034 to the nearest thousand → **U**

Round 51 to the nearest ten $\rightarrow$

Round 6,376 to the nearest thousand $\rightarrow$ **P**

Round 8,357 to the nearest thousand → **M**

Round 719 to the nearest hundred $\rightarrow$ **L**

Round 313 to the nearest hundred → **Y**

Round 159 to the nearest hundred → **D**

Round 854 to the nearest hundred $\rightarrow$ **H**

Round 58 to the nearest ten $\rightarrow$ **S**

Round 9,065 to the nearest thousand → **E**

Round 1,666 to the nearest thousand → **A**

Round 5,144 to the nearest thousand → **N**

Scratch space:

CLUE 2 Addition

We need to add up all the spent laser battery packs left in the docking bay. The total count will unlock the pilot suit database.

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

T											T			T			
764	541	252	852	924	299	924	852	299	252	764	252	505	764	252	299	924	
		T					T							T			
269	252	764	924	746	499	553	764	503	553	304	734	764					

$368 + 396 = \square \rightarrow$ T	$151 + 148 = \square \rightarrow$ D	$127 + 177 = \square \rightarrow$ L
$86 + 183 = \square \rightarrow$ B	$444 + 302 = \square \rightarrow$ S	$143 + 109 = \square \rightarrow$ E
$311 + 242 = \square \rightarrow$ I	$378 + 163 = \square \rightarrow$ H	$187 + 318 = \square \rightarrow$ C
$223 + 280 = \square \rightarrow$ P	$291 + 561 = \square \rightarrow$ R	$486 + 248 = \square \rightarrow$ O
$614 + 310 = \square \rightarrow$ A	$182 + 317 = \square \rightarrow$ U	

Scratch space:

CLUE 3

Subtraction

The pirate ship drained some of our defense shield energy. If we subtract the leftover power from the starting total we can find the escape code.

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

W														
899	381	570	724	820	650	330	825	570	825	135	189	820	570	
411	330	820	411	692	330	570	825	570	135	724	330	820	249	724

$1008 - 109 = \square \rightarrow \boxed{\text{W}}$

$1011 - 186 = \square \rightarrow \boxed{\text{S}}$

$940 - 290 = \square \rightarrow \boxed{\text{M}}$

$423 - 93 = \square \rightarrow \boxed{\text{I}}$

$689 - 308 = \square \rightarrow \boxed{\text{A}}$

$387 - 138 = \square \rightarrow \boxed{\text{G}}$

$474 - 339 = \square \rightarrow \boxed{\text{H}}$

$947 - 255 = \square \rightarrow \boxed{\text{U}}$

$441 - 252 = \square \rightarrow \boxed{\text{O}}$

$740 - 16 = \square \rightarrow \boxed{\text{E}}$

$1084 - 264 = \square \rightarrow \boxed{\text{R}}$

$590 - 179 = \square \rightarrow \boxed{\text{C}}$

$844 - 274 = \square \rightarrow \boxed{\text{T}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The starfighters are parked in neat grid rows inside the hangar. Multiply the rows by the columns to find the secret visor frequency!

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

T															
72	30	42	42	63	15	121	42	3	80	42	30	40	48	40	
80	16	48	132	15	80	9	6	20	42	84	6	16	8		

$12 \times 6 = \square \rightarrow \text{T}$

$6 \times 7 = \square \rightarrow \text{E}$

$12 \times 4 = \square \rightarrow \text{S}$

$5 \times 6 = \square \rightarrow \text{H}$

$8 \times 10 = \square \rightarrow \text{C}$

$8 \times 2 = \square \rightarrow \text{O}$

$8 \times 5 = \square \rightarrow \text{A}$

$7 \times 12 = \square \rightarrow \text{G}$

$1 \times 3 = \square \rightarrow \text{N}$

$5 \times 3 = \square \rightarrow \text{I}$

$2 \times 3 = \square \rightarrow \text{L}$

$1 \times 9 = \square \rightarrow \text{B}$

$2 \times 4 = \square \rightarrow \text{W}$

$10 \times 2 = \square \rightarrow \text{U}$

$7 \times 9 = \square \rightarrow \text{V}$

$11 \times 12 = \square \rightarrow \text{M}$

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

Scratch space:

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

We have to divide the remaining energy cells equally among the scout ships. Solving this share puzzle reveals the villain's final weakness.

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:

$45 \div 9 = \boxed{}$

$132 \div 12 = \boxed{}$

$12 \div 1 = \boxed{}$

$7 \div 7 = \boxed{}$

$24 \div 3 = \boxed{}$

$63 \div 7 = \boxed{}$

$24 \div 4 = \boxed{}$

$28 \div 4 = \boxed{}$

$9 \div 3 = \boxed{}$

$80 \div 8 = \boxed{}$

$20 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain fires a giant laser beam, then flies into a thick asteroid field.
2. The villain charges the plasma thrusters, then escapes through a secret wormhole.
3. The villain blasts the enemy shield, then warps to a far solar system.
4. The villain shoots a proton wave, then cloaks their ship from the radar.
5. The villain fires a giant laser beam, then escapes through a secret wormhole.
6. The villain shoots a proton wave, then escapes through a secret wormhole.
7. The villain charges the plasma thrusters, then warps to a far solar system.
8. The villain activates the fusion drive, then flies into a thick asteroid field.
9. The villain charges the plasma thrusters, then sneaks past the fleet guards.
10. The villain charges the plasma thrusters, then flies into a thick asteroid field.
11. The villain shoots a proton wave, then sneaks past the fleet guards.
12. The villain shoots a proton wave, then flies into a thick asteroid field.

Answer Key

The Great Starship Sabotage

Culprit: Bolt Spark

Plasma Pulse · Nano Plating · Beta Suit · Cosmic Blue · Water Mist

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SPY DOES NOT USE A MIRROR SHIELD"

Round 78 to the nearest ten = 80 (T) · Round 3,023 to the nearest thousand = 3000 (R) · Round 38 to the nearest ten = 40 (O) · Round 4,034 to the nearest thousand = 4000 (U) · Round 51 to the nearest ten = 50 (I) · Round 6,376 to the nearest thousand = 6000 (P) · Round 8,357 to the nearest thousand = 8000 (M) · Round 719 to the nearest hundred = 700 (L) · Round 313 to the nearest hundred = 300 (Y) · Round 159 to the nearest hundred = 200 (D) · Round 854 to the nearest hundred = 900 (H) · Round 58 to the nearest ten = 60 (S) · Round 9,065 to the nearest thousand = 9000 (E) · Round 1,666 to the nearest thousand = 2000 (A) · Round 5,144 to the nearest thousand = 5000 (N)

Clue 2 (Addition): "THE RADAR DETECTED A BETA SUIT PILOT"

$368 + 396 = 764$ (T) · $151 + 148 = 299$ (D) · $127 + 177 = 304$ (L) · $86 + 183 = 269$ (B) · $444 + 302 = 746$ (S) · $143 + 109 = 252$ (E) · $311 + 242 = 553$ (I) · $378 + 163 = 541$ (H) · $187 + 318 = 505$ (C) · $223 + 280 = 503$ (P) · $291 + 561 = 852$ (R) · $486 + 248 = 734$ (O) · $614 + 310 = 924$ (A) · $182 + 317 = 499$ (U)

Clue 3 (Subtraction): "WATER MIST SHORT CIRCUITS THEIR GEAR"

$1008 - 109 = 899$ (W) · $1011 - 186 = 825$ (S) · $940 - 290 = 650$ (M) · $423 - 93 = 330$ (I) · $689 - 308 = 381$ (A) · $387 - 138 = 249$ (G) · $474 - 339 = 135$ (H) · $947 - 255 = 692$ (U) · $441 - 252 = 189$ (O) · $740 - 16 = 724$ (E) · $1084 - 264 = 820$ (R) · $590 - 179 = 411$ (C) · $844 - 274 = 570$ (T)

Clue 4 (Multiplication facts (1-12)): "THE EVIDENCE HAS A COSMIC BLUE GLOW"

$12 \times 6 = 72$ (T) · $6 \times 7 = 42$ (E) · $12 \times 4 = 48$ (S) · $5 \times 6 = 30$ (H) · $8 \times 10 = 80$ (C) · $8 \times 2 = 16$ (O) · $8 \times 5 = 40$ (A) · $7 \times 12 = 84$ (G) · $1 \times 3 = 3$ (N) · $5 \times 3 = 15$ (I) · $2 \times 3 = 6$ (L) · $1 \times 9 = 9$ (B) · $2 \times 4 = 8$ (W) · $10 \times 2 = 20$ (U) · $7 \times 9 = 63$ (V) · $11 \times 12 = 132$ (M) · $11 \times 11 = 121$ (D)

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

$45 \div 9 = 5$ · $132 \div 12 = 11$ · $12 \div 1 = 12$ · $7 \div 7 = 1$ · $24 \div 3 = 8$ · $63 \div 7 = 9$ · $24 \div 4 = 6$ · $28 \div 4 = 7$ · $9 \div 3 = 3$ · $80 \div 8 = 10$ · $20 \div 5 = 4$