



The Case of the Star-Swiped Snacks

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

Detective: _____ **Date:** _____

Someone has raided the snack stalls on Port Nebula! Captain Starbeard's space pirates are the prime suspects. Detective Nova needs your help to figure out which pirate nabbed the Galactic Gummy Worms before they escape into the void!

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 space pirate is _____

Possible suspects

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

NAME	LASER COLOR	SPECIAL GEAR	CREW TYPE	TENTACLE STYLE	SOUND SENSITIVITY
Zap	Crimson Beam	Warp Whistle	Zorgonian	Spiked	Loud Bangs
Squeak	Emerald Blast	X-Ray Goggles	Rigellian	Braided	Soft Whispers
Grunk	Violet Flash	Grappling Hook	Rigellian	Curly	Loud Bangs
Wobble	Violet Flash	Jet Boots	Zorgonian	Spiked	Soft Whispers
Buzz	Crimson Beam	X-Ray Goggles	Zorgonian	Braided	Loud Bangs
Rigel	Gold Ray	Warp Whistle	Zorgonian	Braided	High Pitches
Pip	Gold Ray	Jet Boots	Zorgonian	Braided	Soft Whispers
Quark	Emerald Blast	Force Field Belt	Rigellian	Curly	Loud Bangs
Snork	Sapphire Bolt	X-Ray Goggles	Rigellian	Curly	Loud Bangs
Fizz	Crimson Beam	X-Ray Goggles	Zorgonian	Curly	Soft Whispers
Zarg	Crimson Beam	Jet Boots	Rigellian	Curly	High Pitches
Blorg	Gold Ray	X-Ray Goggles	Zorgonian	Braided	High Pitches
Fleep	Gold Ray	Warp Whistle	Rigellian	Curly	Loud Bangs
Zorg	Violet Flash	Force Field Belt	Rigellian	Curly	High Pitches
Zorp	Gold Ray	Force Field Belt	Zorgonian	Curly	Loud Bangs
Splish	Violet Flash	Jet Boots	Rigellian	Spiked	Loud Bangs
Zip	Crimson Beam	Jet Boots	Zorgonian	Spiked	Loud Bangs
Glar	Emerald Blast	Warp Whistle	Zorgonian	Braided	High Pitches
Splash	Sapphire Bolt	Jet Boots	Rigellian	Curly	Loud Bangs
Bleep	Sapphire Bolt	Jet Boots	Rigellian	Curly	Soft Whispers
Krill	Gold Ray	Jet Boots	Rigellian	Braided	Loud Bangs

CLUE 1 Rounding

The first witness saw the pirate escape, but the security scanner only showed rounded numbers on its report.

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

T																
5000	90	300	2000	50	7000	9000	200	50	600	300	70	20	80	200	80	70
					T											
30	50	600	9000	80	5000	4000	80	200	40	70	50	400				

Round 5,479 to the nearest thousand → **T**

Round 29 to the nearest ten → **W**

Round 323 to the nearest hundred → **E**

Round 602 to the nearest hundred → **S**

Round 40 to the nearest ten → **D**

Round 47 to the nearest ten → **A**

Round 6,530 to the nearest thousand → **I**

Round 80 to the nearest ten → **O**

Round 70 to the nearest ten → **R**

Round 239 to the nearest hundred → **L**

Round 1,892 to the nearest thousand → **M**

Round 3,840 to the nearest thousand → **G**

Round 18 to the nearest ten → **C**

Round 90 to the nearest ten → **H**

Round 408 to the nearest hundred → **Y**

Round 9,313 to the nearest thousand → **N**

Scratch space:

CLUE 2 **Addition**

The snack vendor counted the remaining space-cherries. It was tricky to keep track of them all as they tumbled.

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

T								T							
665	547	357	726	277	357	744	665	324	330	357	744	825	631		

277	581	956	357	267	267	581	825	614

$208 + 457 = \boxed{} \rightarrow \boxed{\text{T}}$

$362 + 219 = \boxed{} \rightarrow \boxed{\text{I}}$

$103 + 174 = \boxed{} \rightarrow \boxed{\text{R}}$

$387 + 244 = \boxed{} \rightarrow \boxed{\text{S}}$

$213 + 401 = \boxed{} \rightarrow \boxed{\text{N}}$

$406 + 550 = \boxed{} \rightarrow \boxed{\text{G}}$

$161 + 169 = \boxed{} \rightarrow \boxed{\text{P}}$

$332 + 493 = \boxed{} \rightarrow \boxed{\text{A}}$

$352 + 392 = \boxed{} \rightarrow \boxed{\text{W}}$

$221 + 136 = \boxed{} \rightarrow \boxed{\text{E}}$

$141 + 126 = \boxed{} \rightarrow \boxed{\text{L}}$

$165 + 382 = \boxed{} \rightarrow \boxed{\text{H}}$

$179 + 145 = \boxed{} \rightarrow \boxed{\text{Y}}$

$384 + 342 = \boxed{} \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 3

One pirate dropped a stolen bag of moon-cheese puffs. Luckily, a friendly space slug slurped up most of them.

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

616 717 735 417 351 831 472 610 417 735 472 417 302 616 302 425 302 616 546 540 178 417 476 351 831 610 220 178 472 152 417

$$776 - 160 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$884 - 149 = \boxed{} \rightarrow \boxed{\text{E}}$$

$1100 - 383 = \boxed{} \rightarrow \boxed{\text{H}}$

$$486 - 10 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$577 - 152 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$573 - 27 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$547 - 327 = \square \rightarrow \boxed{\mathbf{B}}$

$$687 - 385 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$624 - 273 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$848 - 308 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$753 - 336 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$907 - 297 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$262 - 84 = \boxed{} \rightarrow \boxed{\text{A}}$$

$385 - 233 = \boxed{} \rightarrow \boxed{\text{G}}$

$899 - 68 = \boxed{} \rightarrow \boxed{\text{U}}$

$$867 - 395 = \boxed{} \rightarrow \boxed{\text{N}}$$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The pirates formed neat rows as they marched away, each row holding the same number of glimmer-goobers.

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

T			T			T						T						
3	144	72	3	72	21	3	54	56	44	72	121	3	33	44	72	110	54	121

56	84	35	44	33

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

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

$7 \times 5 = \square \rightarrow \boxed{\text{R}}$

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

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

$10 \times 11 = \square \rightarrow \boxed{\text{W}}$

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

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

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

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

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

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

Scratch space:

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

Captain Starbeard made sure to share the stolen quasar-crackers fairly among his crew before they made their getaway.

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:

$48 \div 4 = \boxed{}$

$8 \div 8 = \boxed{}$

$18 \div 9 = \boxed{}$

$25 \div 5 = \boxed{}$

$9 \div 3 = \boxed{}$

$90 \div 10 = \boxed{}$

$66 \div 11 = \boxed{}$

$80 \div 8 = \boxed{}$

$40 \div 10 = \boxed{}$

$132 \div 12 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted, then flew.
2. The villain zapped, then shielded.
3. The villain zapped, then flew.
4. The villain fired, then whistled.
5. The villain scorched, then flew.
6. The villain scorched, then whistled.
7. The villain sliced, then whistled.
8. The villain blasted, then hooked.
9. The villain fired, then shielded.
10. The villain scorched, then shielded.
11. The villain fired, then spied.
12. The villain blasted, then spied.

Answer Key

The Case of the Star-Striped Snacks

Culprit: Fleep

Gold Ray · Warp Whistle · Rigellian · Curly · Loud Bangs

Trail: Start 21 → Clue 1 20 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE MAIN LASER COLOR WAS NOT GOLD RAY"

Round 5,479 to the nearest thousand = 5000 (T) · Round 29 to the nearest ten = 30 (W) · Round 323 to the nearest hundred = 300 (E) · Round 602 to the nearest hundred = 600 (S) · Round 40 to the nearest ten = 40 (D) · Round 47 to the nearest ten = 50 (A) · Round 6,530 to the nearest thousand = 7000 (I) · Round 80 to the nearest ten = 80 (O) · Round 70 to the nearest ten = 70 (R) · Round 239 to the nearest hundred = 200 (L) · Round 1,892 to the nearest thousand = 2000 (M) · Round 3,840 to the nearest thousand = 4000 (G) · Round 18 to the nearest ten = 20 (C) · Round 90 to the nearest ten = 90 (H) · Round 408 to the nearest hundred = 400 (Y) · Round 9,313 to the nearest thousand = 9000 (N)

Clue 2 (Addition): "THE CREW TYPE WAS RIGELLIAN"

$208 + 457 = 665$ (T) · $362 + 219 = 581$ (I) · $103 + 174 = 277$ (R) · $387 + 244 = 631$ (S) · $213 + 401 = 614$ (N) · $406 + 550 = 956$ (G) · $161 + 169 = 330$ (P) · $332 + 493 = 825$ (A) · $352 + 392 = 744$ (W) · $221 + 136 = 357$ (E) · $141 + 126 = 267$ (L) · $165 + 382 = 547$ (H) · $179 + 145 = 324$ (Y) · $384 + 342 = 726$ (C)

Clue 3 (Subtraction): "THE SOUND SENSITIVITY WAS LOUD BANGS"

$776 - 160 = 616$ (T) · $884 - 149 = 735$ (E) · $1100 - 383 = 717$ (H) · $486 - 10 = 476$ (L) · $577 - 152 = 425$ (V) · $573 - 27 = 546$ (Y) · $547 - 327 = 220$ (B) · $687 - 385 = 302$ (I) · $624 - 273 = 351$ (O) · $848 - 308 = 540$ (W) · $753 - 336 = 417$ (S) · $907 - 297 = 610$ (D) · $262 - 84 = 178$ (A) · $385 - 233 = 152$ (G) · $899 - 68 = 831$ (U) · $867 - 395 = 472$ (N)

Clue 4 (Multiplication facts (1-12)): "THE TENTACLE STYLE WAS CURLY"

$1 \times 3 = 3$ (T) · $8 \times 7 = 56$ (C) · $7 \times 5 = 35$ (R) · $3 \times 11 = 33$ (Y) · $3 \times 7 = 21$ (N) · $10 \times 11 = 110$ (W) · $11 \times 11 = 121$ (S) · $9 \times 8 = 72$ (E) · $4 \times 11 = 44$ (L) · $6 \times 9 = 54$ (A) · $7 \times 12 = 84$ (U) · $12 \times 12 = 144$ (H)

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

$48 \div 4 = 12$ · $8 \div 8 = 1$ · $18 \div 9 = 2$ · $25 \div 5 = 5$ · $9 \div 3 = 3$ · $90 \div 10 = 9$ · $66 \div 11 = 6$ · $80 \div 8 = 10$ · $40 \div 10 = 4$ · $132 \div 12 = 11$ · $24 \div 3 = 8$