



The Great Blocky Space Heist

Grade 6 math · Place value, Addition, Rounding, Skip counting, Missing addends · Reading level grades 5-6

Detective: _____ **Date:** _____

A mystery culprit has stolen the Golden Power Core from the Astro-Pixel Station! The station commander needs your math skills to decode the evidence, examine the suspects, and catch the thief before they jump through the warp gate.

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 Bandit is _____

Possible suspects

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

NAME	PRIMARY GEAR	SPECIAL ABILITY	DOMINANT HAND	PHYSICAL FEATURE	COUNTER TOOL
Astro Whiskers	BLOCK BREAKER	NEBULA BLAST	RIGHT HANDED	NEON MANE	CATNIP SPRAY
Commander Rex	BLOCK BREAKER	GRAVITY BOOSTER	RIGHT HANDED	SILVER SCALES	WATER JET
Officer Scraps	LASER CANNON	PIXEL SHIELD	RIGHT HANDED	PURPLE FUR	CATNIP SPRAY
Mermaid Marina	LASER CANNON	STEALTH CLOAK	RIGHT HANDED	NEON MANE	WATER JET
Sparkle Fin	BLOCK BREAKER	STEALTH CLOAK	LEFT HANDED	PURPLE FUR	WATER JET
Starlight Sparkle	LASER CANNON	GRAVITY BOOSTER	LEFT HANDED	SILVER SCALES	MAGNET PULSE
Professor Nibbles	JETPACK BOOTS	GRAVITY BOOSTER	RIGHT HANDED	NEON MANE	WATER JET
Ranger Comet	MECHA CLAWS	NEBULA BLAST	LEFT HANDED	SILVER SCALES	CATNIP SPRAY
Dr Barnaby	LASER CANNON	UNICORN DASH	RIGHT HANDED	NEON MANE	WATER JET
Dino Spike	MECHA CLAWS	NEBULA BLAST	RIGHT HANDED	NEON MANE	WATER JET
Giga Pixel	MECHA CLAWS	GRAVITY BOOSTER	LEFT HANDED	NEON MANE	WATER JET
Cyber Claw	TAIL PROPULSION	NEBULA BLAST	RIGHT HANDED	SILVER SCALES	CATNIP SPRAY
Luna Paws	BLOCK BREAKER	STEALTH CLOAK	LEFT HANDED	NEON MANE	MAGNET PULSE
Patch the Parrot	LASER CANNON	STEALTH CLOAK	RIGHT HANDED	NEON MANE	MAGNET PULSE
Pirate Hook	MECHA CLAWS	UNICORN DASH	LEFT HANDED	PURPLE FUR	WATER JET
Sir Triton	BLOCK BREAKER	UNICORN DASH	RIGHT HANDED	SILVER SCALES	CATNIP SPRAY
Captain Swash	JETPACK BOOTS	NEBULA BLAST	RIGHT HANDED	SILVER SCALES	CATNIP SPRAY
Scurvy Sam	JETPACK BOOTS	NEBULA BLAST	RIGHT HANDED	NEON MANE	WATER JET
T-Rex Tim	JETPACK BOOTS	NEBULA BLAST	LEFT HANDED	SILVER SCALES	CATNIP SPRAY
Barnaby Bolder	LASER CANNON	PIXEL SHIELD	LEFT HANDED	PURPLE FUR	CATNIP SPRAY
Robo Buster	TAIL PROPULSION	UNICORN DASH	RIGHT HANDED	NEON MANE	CATNIP SPRAY

CLUE 1

Analyzing the station control panel, Cadet Leo read the place values from the digital logbook to unlock the first code fragment.

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

4000 6000 600 7000 300 600 2000 200 8000 3000 2000 300 400 20 4000 400 90 600 7000

300 90 4000 900 7000 600 900 300 20 10 90 30 300 400 2000 7000 6000

What is the value of the 4 in 814,173? → **T**

What is the value of the 9 in 26,986? → **U**

What is the value of the 1 in 462,813? →

What is the value of the 2 in 91,627? →

What is the value of the 9 in 560,597? →

What is the value of the 6 in 306,730? → **H**

What is the value of the 3 in 61,380? → **N**

What is the value of the 6 in 91,678? → **E**

What is the value of the 4 in 75,477? → **D**

What is the value of the 2 in 62,553? → **A**

What is the value of the 7 in 87,505? → **S**

What is the value of the 2 in 49,264? → **K**

What is the value of the 3 in 49,438? → **R**

What is the value of the 3 in 883,088? → **B**

What is the value of the 8 in 768,092? → **Y**

Scratch space:

CLUE 2 Addition

Captain Barnaby added up the energy logs from each sector to pinpoint where the bandit opened the blast doors.

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

T																	
4853	6791	2069	6813	4332	6813	6686	2069	9552	4853	5031	5012	6813	6813	2069	2069	6570	

					T												
4332	6813	9031	6570	9412	4853	6791	2069	9031	7087	7087	9031	9412	6791	4853	6791	5012	6570

$1583 + 3270 = \square \rightarrow \text{T}$	$3657 + 3156 = \square \rightarrow \text{S}$	$4569 + 4462 = \square \rightarrow \text{I}$
$3023 + 6529 = \square \rightarrow \text{C}$	$3652 + 2918 = \square \rightarrow \text{N}$	$4784 + 2303 = \square \rightarrow \text{R}$
$4580 + 2106 = \square \rightarrow \text{P}$	$2171 + 2841 = \square \rightarrow \text{A}$	$1270 + 799 = \square \rightarrow \text{E}$
$5957 + 3455 = \square \rightarrow \text{G}$	$4518 + 2273 = \square \rightarrow \text{H}$	$2179 + 2153 = \square \rightarrow \text{U}$
$3476 + 1555 = \square \rightarrow \text{W}$	$3154 + 2064 = \square \rightarrow \text{D}$	

Scratch space:

CLUE 3
Rounding

The perimeter radar scanner only showed rounded thruster readings, so Detective Cleo estimated the total output.

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

A														A			
700	4300	30	2300	4300	50	2900	5000	90	90	200	2900	5000	500	700	1300	5000	2900

									A					
2000	5000	1300	4300	30	1300	1300	4300	5000	430	700	900	9000	30	1300

Round 666 to the nearest hundred → **A**

Round 2,908 to the nearest hundred → **R**

Round 8,856 to the nearest thousand → **D**

Round 433 to the nearest ten → **B**

Round 4,995 to the nearest thousand → **E**

Round 26 to the nearest ten → **I**

Round 198 to the nearest hundred → **U**

Round 2,258 to the nearest hundred → **G**

Round 496 to the nearest hundred → **W**

Round 88 to the nearest ten → **S**

Round 4,258 to the nearest hundred → **H**

Round 2,150 to the nearest thousand → **J**

Round 908 to the nearest hundred → **N**

Round 1,331 to the nearest hundred → **T**

Round 47 to the nearest ten → **P**

Scratch space:

CLUE 4 Skip counting

Tracking the beat of the thruster cycles, Officer Jax skip counted the rhythm of the power pulses across the main bay.

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

T					T			T								
26	24	10	80	10	26	10	60	26	65	6	10	33	16	27	22	80
													T			
140	24	10	80	22	10	16	22	90	50	22	10	50	26	140	60	10

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **T**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **O**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **D**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **M**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **F**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **U**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **C**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **V**

Scratch space:

CLUE 5**Missing addends - the last clue**

Chief Astra compared the solar battery charge against the full capacity to figure out the missing power amount.

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:

$26 + \underline{\quad} = 30$

$34 + \underline{\quad} = 35$

$12 + \underline{\quad} = 15$

$11 + \underline{\quad} = 13$

$27 + \underline{\quad} = 33$

$18 + \underline{\quad} = 27$

$20 + \underline{\quad} = 30$

$39 + \underline{\quad} = 46$

$12 + \underline{\quad} = 23$

$37 + \underline{\quad} = 49$

$28 + \underline{\quad} = 33$

Step 2 - cross out the sentence with each answer:

1. The villain extended the mecha claws, then unleashed the nebula blast.
2. The villain charged the laser cannon, then boosted with unicorn dash.
3. The villain fired the jetpack boots, then unleashed the nebula blast.
4. The villain fired the jetpack boots, then activated the gravity booster.
5. The villain charged the laser cannon, then raised the pixel shield.
6. The villain spun the tail propulsion, then raised the pixel shield.
7. The villain extended the mecha claws, then engaged the stealth cloak.
8. The villain charged the laser cannon, then engaged the stealth cloak.
9. The villain extended the mecha claws, then raised the pixel shield.
10. The villain fired the jetpack boots, then engaged the stealth cloak.
11. The villain spun the tail propulsion, then activated the gravity booster.
12. The villain charged the laser cannon, then activated the gravity booster.

Answer Key

The Great Blocky Space Heist

Culprit: Mermaid Marina

LASER CANNON · STEALTH CLOAK · RIGHT HANDED · NEON MANE · WATER JET

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY BANDIT DOES NOT USE UNICORN DASH"

What is the value of the 4 in 814,173? = 4000 (T) · What is the value of the 9 in 26,986? = 900 (U) · What is the value of the 1 in 462,813? = 10 (C) · What is the value of the 2 in 91,627? = 20 (I) · What is the value of the 9 in 560,597? = 90 (O) · What is the value of the 6 in 306,730? = 6000 (H) · What is the value of the 3 in 61,380? = 300 (N) · What is the value of the 6 in 91,678? = 600 (E) · What is the value of the 4 in 75,477? = 400 (D) · What is the value of the 2 in 62,553? = 2000 (A) · What is the value of the 7 in 87,505? = 7000 (S) · What is the value of the 2 in 49,264? = 200 (K) · What is the value of the 3 in 49,438? = 30 (R) · What is the value of the 3 in 883,088? = 3000 (B) · What is the value of the 8 in 768,092? = 8000 (Y)

Clue 2 (Addition): "THE SUSPECT WAS SEEN USING THEIR RIGHT HAND"

1583 + 3270 = 4853 (T) · 3657 + 3156 = 6813 (S) · 4569 + 4462 = 9031 (I) · 3023 + 6529 = 9552 (C) · 3652 + 2918 = 6570 (N) · 4784 + 2303 = 7087 (R) · 4580 + 2106 = 6686 (P) · 2171 + 2841 = 5012 (A) · 1270 + 799 = 2069 (E) · 5957 + 3455 = 9412 (G) · 4518 + 2273 = 6791 (H) · 2179 + 2153 = 4332 (U) · 3476 + 1555 = 5031 (W) · 3154 + 2064 = 5218 (D)

Clue 3 (Rounding): "A HIGH PRESSURE WATER JET HIT THE BANDIT"

Round 666 to the nearest hundred = 700 (A) · Round 2,908 to the nearest hundred = 2900 (R) · Round 8,856 to the nearest thousand = 9000 (D) · Round 433 to the nearest ten = 430 (B) · Round 4,995 to the nearest thousand = 5000 (E) · Round 26 to the nearest ten = 30 (I) · Round 198 to the nearest hundred = 200 (U) · Round 2,258 to the nearest hundred = 2300 (G) · Round 496 to the nearest hundred = 500 (W) · Round 88 to the nearest ten = 90 (S) · Round 4,258 to the nearest hundred = 4300 (H) · Round 2,150 to the nearest thousand = 2000 (J) · Round 908 to the nearest hundred = 900 (N) · Round 1,331 to the nearest hundred = 1300 (T) · Round 47 to the nearest ten = 50 (P)

Clue 4 (Skip counting): "THE DETECTIVE FOUND SHED NEON MANE AT SCENE"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (M) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (C) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (V)

Clue 5 (Missing addends): surviving statement is box 8 → Mermaid Marina

26 + __ = 30 = 4 · 34 + __ = 35 = 1 · 12 + __ = 15 = 3 · 11 + __ = 13 = 2 · 27 + __ = 33 = 6 · 18 + __ = 27 = 9 · 20 + __ = 30 = 10 · 39 + __ = 46 = 7 · 12 + __ = 23 = 11 · 37 + __ = 49 = 12 · 28 + __ = 33 = 5