



# The Great Cyber-Dino Heist

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

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

Oh no! A sneaky space-dino bandit has raided the blocky shipyard of Sector Nine and stolen the Golden Redstone Engine. Captain Bolt and the Star-Dino Fleet need your help to trace the clues, solve the math, and find the real thief before they warp away!

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-Dino Bandit is** \_\_\_\_\_

## Possible suspects

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

| NAME             | SPACE ABILITY | SPECIAL GEAR    | OBSERVED HOOK | WIRED MOHAWK | FOIL ITEM        |
|------------------|---------------|-----------------|---------------|--------------|------------------|
| Creeper Cody     | Gravity Ray   | Plasma Sword    | Right Hook    | Red Mohawk   | Rust Spray       |
| Captain Rex      | Laser Claw    | Force Field     | Right Hook    | Blue Mohawk  | Magnet Net       |
| Cpt Gold-Block   | Laser Claw    | Force Field     | Left Hook     | Green Mohawk | Magnet Net       |
| Enderman Ed      | Laser Claw    | Mega Drill      | Right Hook    | Green Mohawk | Slick Ice Blocks |
| Tricera-Chip     | Rocket Tail   | Obsidian Shield | Right Hook    | Blue Mohawk  | Slick Ice Blocks |
| Stego-Beard      | Jetpack Jump  | Digging Claw    | Right Hook    | Blue Mohawk  | Slick Ice Blocks |
| Plank-Walker Bot | Sonic Roar    | Mega Drill      | Left Hook     | Red Mohawk   | Rust Spray       |
| Sir Gears-a-Lot  | Laser Claw    | Mega Drill      | Right Hook    | Blue Mohawk  | Slick Ice Blocks |
| Bucky Bot        | Laser Claw    | Obsidian Shield | Right Hook    | Blue Mohawk  | Magnet Net       |
| Metal Mike       | Sonic Roar    | Plasma Sword    | Right Hook    | Green Mohawk | Rust Spray       |
| Byte-Size Beard  | Rocket Tail   | Digging Claw    | Right Hook    | Blue Mohawk  | Magnet Net       |
| Laser Raptor     | Jetpack Jump  | Digging Claw    | Right Hook    | Red Mohawk   | Slick Ice Blocks |
| Cyber-Claw       | Sonic Roar    | Force Field     | Right Hook    | Blue Mohawk  | Slick Ice Blocks |
| Raptor Rusty     | Jetpack Jump  | Force Field     | Right Hook    | Red Mohawk   | Slick Ice Blocks |
| Pegleg Rocky     | Jetpack Jump  | Digging Claw    | Left Hook     | Blue Mohawk  | Slick Ice Blocks |
| Barnaby Bolt     | Rocket Tail   | Plasma Sword    | Right Hook    | Blue Mohawk  | Slick Ice Blocks |
| Captain T-Rex    | Gravity Ray   | Digging Claw    | Left Hook     | Green Mohawk | Magnet Net       |
| Scurvy Steve     | Laser Claw    | Obsidian Shield | Left Hook     | Blue Mohawk  | Slick Ice Blocks |
| Rusty Redstone   | Gravity Ray   | Obsidian Shield | Right Hook    | Red Mohawk   | Rust Spray       |
| Scurvy Spino     | Sonic Roar    | Obsidian Shield | Left Hook     | Blue Mohawk  | Magnet Net       |
| Robo-Beard       | Gravity Ray   | Mega Drill      | Left Hook     | Blue Mohawk  | Magnet Net       |

## CLUE 1 Addition

Captain Bolt counts the empty crates in the cargo hold. Add the redstone dust piles to find the total missing blocks.

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

|                              |                             |                             |                              |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                              |                             |                             |                             |                             |
|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <div>T</div> <div>4240</div> | <div></div> <div>7736</div> | <div></div> <div>3428</div> | <div>T</div> <div>4240</div> | <div></div> <div>7736</div> | <div></div> <div>3990</div> | <div></div> <div>3428</div> | <div></div> <div>8516</div> | <div></div> <div>9259</div> | <div></div> <div>2938</div> | <div></div> <div>3428</div> | <div></div> <div>5312</div> | <div></div> <div>5463</div> | <div></div> <div>2938</div> | <div>T</div> <div>4240</div> | <div></div> <div>7736</div> | <div></div> <div>6461</div> | <div></div> <div>7256</div> | <div></div> <div>3428</div> |
| <div></div> <div>6461</div>  | <div></div> <div>9259</div> | <div></div> <div>3990</div> | <div></div> <div>3004</div>  | <div></div> <div>3004</div> | <div></div> <div>3990</div> | <div></div> <div>5463</div> | <div></div> <div>3004</div> | <div></div> <div>4687</div> | <div></div> <div>6974</div> | <div></div> <div>6461</div> | <div></div> <div>2650</div> |                             |                             |                              |                             |                             |                             |                             |

$1451 + 2789 = \square \rightarrow \boxed{\text{T}}$

$3632 + 4884 = \square \rightarrow \boxed{\text{F}}$

$1291 + 1647 = \square \rightarrow \boxed{\text{O}}$

$1682 + 968 = \square \rightarrow \boxed{\text{W}}$

$2651 + 1339 = \square \rightarrow \boxed{\text{I}}$

$2589 + 4667 = \square \rightarrow \boxed{\text{V}}$

$1923 + 2764 = \square \rightarrow \boxed{\text{C}}$

$1895 + 1533 = \square \rightarrow \boxed{\text{E}}$

$2497 + 4477 = \square \rightarrow \boxed{\text{L}}$

$2814 + 2498 = \square \rightarrow \boxed{\text{S}}$

$1999 + 3464 = \square \rightarrow \boxed{\text{N}}$

$2066 + 4395 = \square \rightarrow \boxed{\text{A}}$

$2881 + 4855 = \square \rightarrow \boxed{\text{H}}$

$1149 + 1855 = \square \rightarrow \boxed{\text{G}}$

$4388 + 4871 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

**CLUE 2 Rounding**

The pirate ship radar is fuzzy and only displays rounded gravity levels. Round the scanner reading to track their jump vector.

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

|    |      |      |     |    |    |     |    |    |      |    |    |     |    |     |     |     |    |     |
|----|------|------|-----|----|----|-----|----|----|------|----|----|-----|----|-----|-----|-----|----|-----|
| W  |      |      |     | W  |    |     |    |    |      |    |    |     |    |     |     |     |    |     |
| 70 | 1300 | 7000 | 50  | 70 | 50 | 430 | 30 | 50 | 7000 | 20 | 90 | 430 | 50 | 700 | 110 | 290 | 20 | 130 |
|    |      |      |     |    |    |     |    |    |      |    |    |     |    |     |     |     |    |     |
| 20 | 90   | 90   | 900 |    |    |     |    |    |      |    |    |     |    |     |     |     |    |     |

Round 70 to the nearest ten  → **W**

Round 48 to the nearest ten  → **A**

Round 434 to the nearest ten  → **F**

Round 126 to the nearest ten  → **T**

Round 919 to the nearest hundred  → **K**

Round 94 to the nearest ten  → **O**

Round 1,327 to the nearest hundred  → **E**

Round 28 to the nearest ten  → **L**

Round 680 to the nearest hundred  → **R**

Round 17 to the nearest ten  → **H**

Round 107 to the nearest ten  → **I**

Round 7,473 to the nearest thousand  → **S**

Round 287 to the nearest ten  → **G**

Scratch space:

### CLUE 3 Subtraction

The thief dropped cargo during their escape. Subtract the spilled fuel canisters to see how much energy they have left.

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

|              |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 2316         | 3080        | 5107        | 6758        | 5579        | 6538        | 4524        | 4169        | 2316         | 3019        | 6206        | 4169        | 2533        | 2533        | 5107        | 4524        | 4617        | 6538        |

  

|             |             |             |             |             |             |             |             |             |             |             |             |      |      |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |      |      |
| 3019        | 6206        | 4169        | 4947        | 4480        | 4169        | 4947        | 5107        | 6758        | 6206        | 4617        | 4947        | 4480 | 3019 |

|                                                      |                                                      |                                                       |
|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| $3197 - 881 = \square \rightarrow \boxed{\text{T}}$  | $6472 - 893 = \square \rightarrow \boxed{\text{A}}$  | $11484 - 4726 = \square \rightarrow \boxed{\text{B}}$ |
| $4578 - 409 = \square \rightarrow \boxed{\text{I}}$  | $7017 - 2493 = \square \rightarrow \boxed{\text{D}}$ | $6397 - 1917 = \square \rightarrow \boxed{\text{K}}$  |
| $6135 - 1518 = \square \rightarrow \boxed{\text{O}}$ | $4875 - 1856 = \square \rightarrow \boxed{\text{S}}$ | $9139 - 4192 = \square \rightarrow \boxed{\text{C}}$  |
| $7761 - 2654 = \square \rightarrow \boxed{\text{E}}$ | $6548 - 342 = \square \rightarrow \boxed{\text{L}}$  | $5079 - 1999 = \square \rightarrow \boxed{\text{H}}$  |
| $8411 - 1873 = \square \rightarrow \boxed{\text{N}}$ | $7368 - 4835 = \square \rightarrow \boxed{\text{P}}$ |                                                       |

Scratch space:

## CLUE 4

## Multiplication facts (1-12)

The hangar has several rows of storage bays. Multiply the rows by the lockers to find where the thief hid the map.

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

|    |    |     |    |    |    |   |    |    |     |    |    |    |    |    |    |     |   |   |  |
|----|----|-----|----|----|----|---|----|----|-----|----|----|----|----|----|----|-----|---|---|--|
| W  |    |     |    |    |    |   |    |    |     | W  |    |    |    |    |    |     |   |   |  |
| 48 | 5  | 72  | 55 | 7  | 42 | 6 | 22 | 54 | 100 | 55 | 48 | 70 | 42 | 54 | 45 | 100 | 7 | 5 |  |
|    |    |     |    |    |    |   |    |    |     |    |    |    |    |    |    |     |   |   |  |
|    |    |     |    | W  |    |   |    |    |     |    |    |    |    |    |    |     |   |   |  |
| 27 | 55 | 144 | 22 | 48 | 84 |   |    |    |     |    |    |    |    |    |    |     |   |   |  |

$12 \times 4 = \square \rightarrow \boxed{W}$

$7 \times 6 = \square \rightarrow \boxed{N}$

$2 \times 3 = \square \rightarrow \boxed{D}$

$5 \times 9 = \square \rightarrow \boxed{B}$

$10 \times 7 = \square \rightarrow \boxed{I}$

$12 \times 7 = \square \rightarrow \boxed{K}$

$9 \times 6 = \square \rightarrow \boxed{G}$

$10 \times 10 = \square \rightarrow \boxed{L}$

$7 \times 1 = \square \rightarrow \boxed{U}$

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

$9 \times 3 = \square \rightarrow \boxed{M}$

$12 \times 6 = \square \rightarrow \boxed{F}$

$5 \times 1 = \square \rightarrow \boxed{E}$

$11 \times 5 = \square \rightarrow \boxed{O}$

$2 \times 11 = \square \rightarrow \boxed{A}$

Scratch space:

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

We found the bandit's crew sharing stolen crystals. Divide the energy gems equally to reveal which escape pod they used.

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:**

$80 \div 10 = \boxed{\phantom{00}}$

$2 \div 2 = \boxed{\phantom{00}}$

$11 \div 1 = \boxed{\phantom{00}}$

$6 \div 3 = \boxed{\phantom{00}}$

$60 \div 10 = \boxed{\phantom{00}}$

$72 \div 6 = \boxed{\phantom{00}}$

$42 \div 6 = \boxed{\phantom{00}}$

$24 \div 8 = \boxed{\phantom{00}}$

$12 \div 3 = \boxed{\phantom{00}}$

$20 \div 4 = \boxed{\phantom{00}}$

$9 \div 1 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain swung from the pirate rigging, then scooped up the golden chest.
2. The villain hacked the redstone lock, then stole the robot power core.
3. The villain stomped across the hangar, then snatched the laser cannon blueprint.
4. The villain swung from the pirate rigging, then grabbed the glowing fuel cells.
5. The villain zoomed past the laser grid, then stole the robot power core.
6. The villain zoomed past the laser grid, then grabbed the glowing fuel cells.
7. The villain blasted through the blast doors, then snatched the laser cannon blueprint.
8. The villain swung from the pirate rigging, then stole the robot power core.
9. The villain swung from the pirate rigging, then snatched the laser cannon blueprint.
10. The villain blasted through the blast doors, then grabbed the glowing fuel cells.
11. The villain zoomed past the laser grid, then plundered the diamond block hoard.
12. The villain stomped across the hangar, then stole the robot power core.

# Answer Key

## The Great Cyber-Dino Heist

### Culprit: Sir Gears-a-Lot

Laser Claw · Mega Drill · Right Hook · Blue Mohawk · Slick Ice Blocks

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

#### Clue 1 (Addition): "THE THIEF DOES NOT HAVE A DIGGING CLAW"

$1451 + 2789 = 4240$  (T) ·  $3632 + 4884 = 8516$  (F) ·  $1291 + 1647 = 2938$  (O) ·  $1682 + 968 = 2650$  (W) ·  $2651 + 1339 = 3990$  (I) ·  $2589 + 4667 = 7256$  (V) ·  $1923 + 2764 = 4687$  (C) ·  $1895 + 1533 = 3428$  (E) ·  $2497 + 4477 = 6974$  (L) ·  $2814 + 2498 = 5312$  (S) ·  $1999 + 3464 = 5463$  (N) ·  $2066 + 4395 = 6461$  (A) ·  $2881 + 4855 = 7736$  (H) ·  $1149 + 1855 = 3004$  (G) ·  $4388 + 4871 = 9259$  (D)

#### Clue 2 (Rounding): "WE SAW A FLASH OF A RIGHT HOOK"

Round 70 to the nearest ten = 70 (W) · Round 48 to the nearest ten = 50 (A) · Round 434 to the nearest ten = 430 (F) · Round 126 to the nearest ten = 130 (T) · Round 919 to the nearest hundred = 900 (K) · Round 94 to the nearest ten = 90 (O) · Round 1,327 to the nearest hundred = 1300 (E) · Round 28 to the nearest ten = 30 (L) · Round 680 to the nearest hundred = 700 (R) · Round 17 to the nearest ten = 20 (H) · Round 107 to the nearest ten = 110 (I) · Round 7,473 to the nearest thousand = 7000 (S) · Round 287 to the nearest ten = 290 (G)

#### Clue 3 (Subtraction): "THE BANDIT SLIPPED ON SLICK ICE BLOCKS"

$3197 - 881 = 2316$  (T) ·  $6472 - 893 = 5579$  (A) ·  $11484 - 4726 = 6758$  (B) ·  $4578 - 409 = 4169$  (I) ·  $7017 - 2493 = 4524$  (D) ·  $6397 - 1917 = 4480$  (K) ·  $6135 - 1518 = 4617$  (O) ·  $4875 - 1856 = 3019$  (S) ·  $9139 - 4192 = 4947$  (C) ·  $7761 - 2654 = 5107$  (E) ·  $6548 - 342 = 6206$  (L) ·  $5079 - 1999 = 3080$  (H) ·  $8411 - 1873 = 6538$  (N) ·  $7368 - 4835 = 2533$  (P)

#### Clue 4 (Multiplication facts (1-12)): "WE FOUND A GLOWING BLUE MOHAWK"

$12 \times 4 = 48$  (W) ·  $7 \times 6 = 42$  (N) ·  $2 \times 3 = 6$  (D) ·  $5 \times 9 = 45$  (B) ·  $10 \times 7 = 70$  (I) ·  $12 \times 7 = 84$  (K) ·  $9 \times 6 = 54$  (G) ·  $10 \times 10 = 100$  (L) ·  $7 \times 1 = 7$  (U) ·  $12 \times 12 = 144$  (H) ·  $9 \times 3 = 27$  (M) ·  $12 \times 6 = 72$  (F) ·  $5 \times 1 = 5$  (E) ·  $11 \times 5 = 55$  (O) ·  $2 \times 11 = 22$  (A)

#### Clue 5 (Division facts (1-12)): surviving statement is box 10 → Sir Gears-a-Lot

$80 \div 10 = 8$  ·  $2 \div 2 = 1$  ·  $11 \div 1 = 11$  ·  $6 \div 3 = 2$  ·  $60 \div 10 = 6$  ·  $72 \div 6 = 12$  ·  $42 \div 6 = 7$  ·  $24 \div 8 = 3$  ·  $12 \div 3 = 4$  ·  $20 \div 4 = 5$  ·  $9 \div 1 = 9$