The Mystery of Barnaby's Pixel Pizza Arcade

Grade 3 math · Place value, Addition, Subtraction, Skip counting, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky rogue animatronic swiped the golden arcade key right before the midnight shift! Decipher the clues across the arcade to catch the culprit.

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 animatronic is _____

Possible suspects

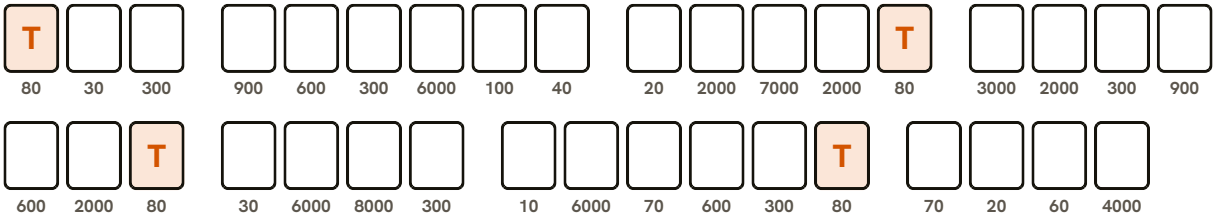
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	MAIN FEATURE	SPECIAL ABILITY	DOMINANT HAND	INTERNAL WIRING	DISRUPTION TRICK
Tech Tim	Party Lights	Shadow Stride	Left Handed	Silver Springs	Squeaking Toy
Mechanic Mike	Amplified Roar	Screech Siren	Left Handed	Silver Springs	Flashlight Beam
Officer Ollie	Pizza Toss	Screech Siren	Left Handed	Neon Circuitry	Buzzing Alarm
Watchman Will	Confetti Blast	Voice Mimic	Right Handed	Neon Circuitry	Squeaking Toy
Sammy Squirrel	Pizza Toss	Voice Mimic	Right Handed	Silver Springs	Buzzing Alarm
Fiona Falcon	Laser Eyes	Turbo Dash	Right Handed	Silver Springs	Flashlight Beam
Sally Gator	Laser Eyes	Magnet Grip	Right Handed	Silver Springs	Squeaking Toy
Captain Carl	Laser Eyes	Magnet Grip	Right Handed	Neon Circuitry	Buzzing Alarm
Chef Charlie	Party Lights	Screech Siren	Right Handed	Silver Springs	Squeaking Toy
Danny Duck	Laser Eyes	Shadow Stride	Right Handed	Silver Springs	Squeaking Toy
Barnaby Bear	Party Lights	Shadow Stride	Left Handed	Neon Circuitry	Flashlight Beam
Guard Rita	Amplified Roar	Screech Siren	Right Handed	Neon Circuitry	Flashlight Beam
Bobby Otter	Amplified Roar	Screech Siren	Left Handed	Neon Circuitry	Flashlight Beam
Cadet Clara	Party Lights	Magnet Grip	Left Handed	Golden Wires	Squeaking Toy
Rusty Rabbit	Amplified Roar	Shadow Stride	Right Handed	Silver Springs	Flashlight Beam
Bella Badger	Amplified Roar	Shadow Stride	Right Handed	Silver Springs	Squeaking Toy
Patrol Pete	Party Lights	Magnet Grip	Left Handed	Neon Circuitry	Squeaking Toy
Wanda Fox	Laser Eyes	Voice Mimic	Left Handed	Neon Circuitry	Flashlight Beam
Inspector Iris	Amplified Roar	Magnet Grip	Right Handed	Silver Springs	Buzzing Alarm
Agent Axel	Confetti Blast	Turbo Dash	Right Handed	Silver Springs	Squeaking Toy
Trooper Toby	Party Lights	Magnet Grip	Right Handed	Silver Springs	Flashlight Beam

CLUE 1 Place value

The security monitor blinks with digit codes that reveal the first clue.

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



What is the value of the 8 in 9,189? ☐ → T

What is the value of the 4 in 94,527? ☐ → P

What is the value of the 4 in 3,549? ☐ → Y

What is the value of the 6 in 3,658? ☐ → N

What is the value of the 2 in 628? ☐ → R

What is the value of the 7 in 874? ☐ → G

What is the value of the 6 in 26,192? ☐ → A

What is the value of the 3 in 63,917? ☐ → D

What is the value of the 3 in 9,362? ☐ → E

What is the value of the 7 in 7,563? ☐ → B

What is the value of the 6 in 260? ☐ → I

What is the value of the 1 in 917? ☐ → M

What is the value of the 9 in 938? ☐ → S

What is the value of the 3 in 2,838? ☐ → H

What is the value of the 2 in 2,804? ☐ → O

What is the value of the 8 in 98,257? ☐ → V

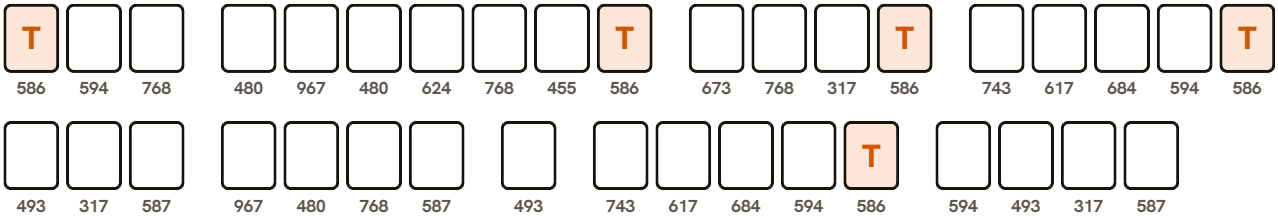
What is the value of the 1 in 190? ☐ → K

Scratch space:

CLUE 2 Addition

You add up the dropped arcade tokens to find where the suspect ran.

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



199 + 387 = ☐ → T

601 + 366 = ☐ → U

507 + 261 = ☐ → E

416 + 208 = ☐ → P

204 + 113 = ☐ → N

166 + 289 = ☐ → C

369 + 304 = ☐ → W

244 + 343 = ☐ → D

376 + 241 = ☐ → I

405 + 189 = ☐ → H

304 + 176 = ☐ → S

276 + 467 = ☐ → R

327 + 166 = ☐ → A

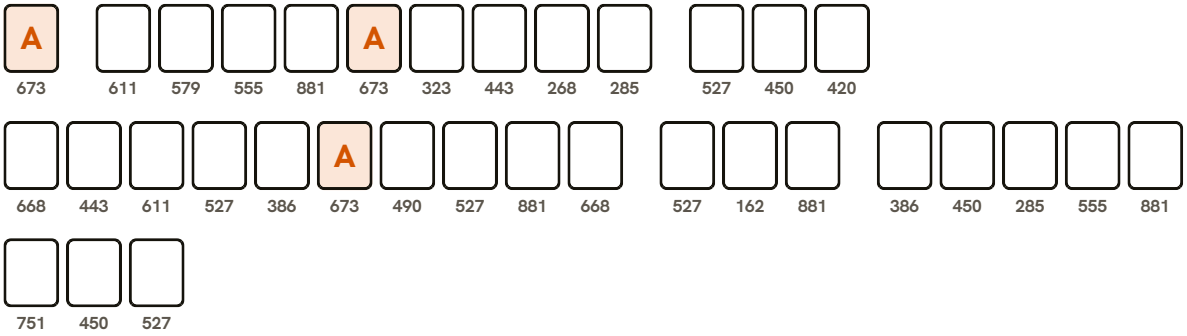
407 + 277 = ☐ → G

Scratch space:

CLUE 3 Subtraction

Subtracting the missing prize tickets reveals a secret hidden note.

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



933 - 260 = ☐ → A

521 - 198 = ☐ → K

612 - 33 = ☐ → Q

1012 - 261 = ☐ → B

824 - 374 = ☐ → O

831 - 276 = ☐ → U

757 - 314 = ☐ → I

608 - 81 = ☐ → T

773 - 105 = ☐ → D

903 - 22 = ☐ → E

542 - 122 = ☐ → Y

610 - 325 = ☐ → G

600 - 332 = ☐ → N

907 - 296 = ☐ → S

558 - 396 = ☐ → H

638 - 148 = ☐ → C

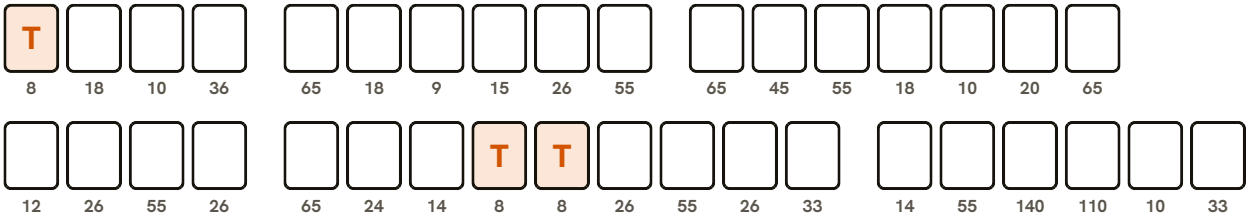
675 - 289 = ☐ → R

Scratch space:

CLUE 4 Skip counting

Skip count the footsteps along the hallway grid to track the robot.

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



Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → T

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → L

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → Y

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, ___, 22, 24 ☐ → G

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 ☐ → P

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 ☐ → A

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 ☐ → V

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 ☐ → R

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 ☐ → C

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → N

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 [ ] → **U**

Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 [ ] → **W**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 [ ] → **I**

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

Scratch space:

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

Divide the pizza boxes equally among tables to unlock the repair door.

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:

132 ÷ 12 = ☐ | 6 ÷ 2 = ☐ | 22 ÷ 11 = ☐ | 77 ÷ 11 = ☐ | 36 ÷ 9 = ☐

30 ÷ 5 = ☐ | 32 ÷ 4 = ☐ | 36 ÷ 3 = ☐ | 10 ÷ 2 = ☐ | 7 ÷ 7 = ☐

63 ÷ 7 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain blasted a pizza slice, then glided through the shadows.
2. The villain shot laser eyes, then glided through the shadows.
3. The villain launched a confetti blast, then dashed across the stage.
4. The villain blasted a pizza slice, then grabbed metal with magnets.
5. The villain shot laser eyes, then mimicked a spooky voice.
6. The villain blasted a pizza slice, then dashed across the stage.
7. The villain shot laser eyes, then blared a screech siren.
8. The villain launched a confetti blast, then glided through the shadows.
9. The villain launched a confetti blast, then blared a screech siren.
10. The villain roared through the speakers, then glided through the shadows.
11. The villain flashed party lights, then blared a screech siren.
12. The villain blasted a pizza slice, then blared a screech siren.

TEACHER / PARENT

Answer Key

The Mystery of Barnaby's Pixel Pizza Arcade

Culprit: Bella Badger

Amplified Roar · Shadow Stride · Right Handed · Silver Springs · Squeaking Toy

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY ROBOT DOES NOT HAVE MAGNET GRIP"

What is the value of the 8 in 9,189? = 80 (T) · What is the value of the 4 in 94,527? = 4000 (P) · What is the value of the 4 in 3,549? = 40 (Y) · What is the value of the 6 in 3,658? = 600 (N) · What is the value of the 2 in 628? = 20 (R) · What is the value of the 7 in 874? = 70 (G) · What is the value of the 6 in 26,192? = 6000 (A) · What is the value of the 3 in 63,917? = 3000 (D) · What is the value of the 3 in 9,362? = 300 (E) · What is the value of the 7 in 7,563? = 7000 (B) · What is the value of the 6 in 260? = 60 (I) · What is the value of the 1 in 917? = 10 (M) · What is the value of the 9 in 938? = 900 (S) · What is the value of the 3 in 2,838? = 30 (H) · What is the value of the 2 in 2,804? = 2000 (O) · What is the value of the 8 in 98,257? = 8000 (V) · What is the value of the 1 in 190? = 100 (K)

Clue 2 (Addition): "THE SUSPECT WENT RIGHT AND USED A RIGHT HAND"

199 + 387 = 586 (T) · 601 + 366 = 967 (U) · 507 + 261 = 768 (E) · 416 + 208 = 624 (P) · 204 + 113 = 317 (N) · 166 + 289 = 455 (C) · 369 + 304 = 673 (W) · 244 + 343 = 587 (D) · 376 + 241 = 617 (I) · 405 + 189 = 594 (H) · 304 + 176 = 480 (S) · 276 + 467 = 743 (R) · 327 + 166 = 493 (A) · 407 + 277 = 684 (G)

Clue 3 (Subtraction): "A SQUEAKING TOY DISTRACTED THE ROGUE BOT"

933 - 260 = 673 (A) · 521 - 198 = 323 (K) · 612 - 33 = 579 (Q) · 1012 - 261 = 751 (B) · 824 - 374 = 450 (O) · 831 - 276 = 555 (U) · 757 - 314 = 443 (I) · 608 - 81 = 527 (T) · 773 - 105 = 668 (D) · 903 - 22 = 881 (E) · 542 - 122 = 420 (Y) · 610 - 325 = 285 (G) · 600 - 332 = 268 (N) · 907 - 296 = 611 (S) · 558 - 396 = 162 (H) · 638 - 148 = 490 (C) · 675 - 289 = 386 (R)

Clue 4 (Skip counting): "TINY SILVER SPRINGS WERE SCATTERED AROUND"

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (T) · Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (Y) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, ___, 22, 24 = 20 (G) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 = 14 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 = 15 (V) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 = 24 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 = 12 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 = 18 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Bella Badger

132 ÷ 12 = 11 · 6 ÷ 2 = 3 · 22 ÷ 11 = 2 · 77 ÷ 11 = 7 · 36 ÷ 9 = 4 · 30 ÷ 5 = 6 · 32 ÷ 4 = 8 · 36 ÷ 3 = 12 · 10 ÷ 2 = 5 · 7 ÷ 7 = 1 · 63 ÷ 7 = 9