



The Great Halloween Candy Caper

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

Detective: _____ Date: _____

On Halloween night, somebody snuck into the Midnight Candy Factory and stole the golden glowing batch of spooky sweets! Work with the Sweets Patrol to gather clues and identify the thief.

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 Candy Thief is _____

Possible suspects

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

NAME	SNACK ATTACK	SPOOKY GEAR	DOMINANT HAND	TOPPING HAIR	SNACK COUNTER
Taffy Tim	Caramel Lasso	Spider Ring	Right Handed	Cotton Candy Puff	Melted Fudge Drip
Mummy Mia	Licorice Whip	Bat Wings	Right Handed	Gummy Worm Strands	Crunch Bar Crunch
Vampire Vic	Bubblegum Blast	Glow Whistle	Right Handed	Cotton Candy Puff	Melted Fudge Drip
Sally Sugar	Marshmallow Shield	Spider Ring	Left Handed	Gummy Worm Strands	Fizzy Soda Splash
Boris Bonbon	Bubblegum Blast	Monster Wrapper	Left Handed	Cotton Candy Puff	Crunch Bar Crunch
Frankie Fudge	Sour Powder Bomb	Pumpkin Bucket	Right Handed	Chocolate Sprinkles	Crunch Bar Crunch
Oliver Chew	Sour Powder Bomb	Spider Ring	Right Handed	Gummy Worm Strands	Crunch Bar Crunch
Lolly Lou	Licorice Whip	Glow Whistle	Right Handed	Cotton Candy Puff	Melted Fudge Drip
Pippa Pop	Caramel Lasso	Spider Ring	Right Handed	Chocolate Sprinkles	Crunch Bar Crunch
Buster Bubblegum	Bubblegum Blast	Monster Wrapper	Right Handed	Chocolate Sprinkles	Crunch Bar Crunch
Gwyneth Gummy	Marshmallow Shield	Pumpkin Bucket	Left Handed	Gummy Worm Strands	Crunch Bar Crunch
Count Cocoa	Sour Powder Bomb	Spider Ring	Right Handed	Chocolate Sprinkles	Crunch Bar Crunch
Casper Crunch	Licorice Whip	Pumpkin Bucket	Right Handed	Cotton Candy Puff	Crunch Bar Crunch
Jack Lantern	Marshmallow Shield	Pumpkin Bucket	Left Handed	Cotton Candy Puff	Melted Fudge Drip
Witch Hazel	Marshmallow Shield	Pumpkin Bucket	Right Handed	Cotton Candy Puff	Fizzy Soda Splash
Fiona Fizz	Marshmallow Shield	Pumpkin Bucket	Right Handed	Gummy Worm Strands	Crunch Bar Crunch
Baron von Bite	Bubblegum Blast	Spider Ring	Right Handed	Chocolate Sprinkles	Crunch Bar Crunch
Carl Candy Corn	Sour Powder Bomb	Glow Whistle	Left Handed	Chocolate Sprinkles	Crunch Bar Crunch
Penny Peppermint	Caramel Lasso	Monster Wrapper	Left Handed	Cotton Candy Puff	Crunch Bar Crunch
Rita Raisin	Licorice Whip	Bat Wings	Right Handed	Chocolate Sprinkles	Fizzy Soda Splash
Sammy Sour	Caramel Lasso	Bat Wings	Left Handed	Gummy Worm Strands	Melted Fudge Drip

CLUE 1 Place value

The detective examined the digital code lock on the factory vault to read the place value of the security code.

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

T																T	
80	5000	60	7000	30	6000	6000	3000	30	50	4000	10	60	1000	50	10	80	
								T									
200	1000	60	3000	700	10	50	1000	80	60	70	500	70	3000	800	800	60	70

What is the value of the 8 in 9,481? → **T**

What is the value of the 4 in 64,052? → **D**

What is the value of the 2 in 8,263? → **U**

What is the value of the 5 in 35,114? → **H**

What is the value of the 1 in 8,210? → **O**

What is the value of the 7 in 57,845? → **V**

What is the value of the 7 in 760? → **M**

What is the value of the 5 in 351? → **N**

What is the value of the 3 in 23,942? → **A**

What is the value of the 3 in 6,130? → **I**

What is the value of the 6 in 26,458? → **L**

What is the value of the 5 in 8,514? → **W**

What is the value of the 6 in 7,562? → **E**

What is the value of the 1 in 41,933? → **S**

What is the value of the 7 in 4,571? → **R**

What is the value of the 8 in 891? → **P**

Scratch space:

CLUE 2 Addition

To find where the suspect hid, the patrol added up the total bags of Halloween treats in each room.

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

T																
3399	7531	9819	4137	7337	4137	3725	9819	9697	3399	7284	9192	2362	3725	3725	9819	7284

T																	
3399	9192	3261	4137	7531	5123	5744	3399	7531	9192	5744	4239	7531	3399	7531	3261	2129	7284

$2185 + 1214 = \boxed{} \rightarrow \boxed{\text{T}}$

$2812 + 2932 = \boxed{} \rightarrow \boxed{\text{I}}$

$5743 + 3954 = \boxed{} \rightarrow \boxed{\text{C}}$

$1894 + 1831 = \boxed{} \rightarrow \boxed{\text{P}}$

$3356 + 4175 = \boxed{} \rightarrow \boxed{\text{H}}$

$841 + 1288 = \boxed{} \rightarrow \boxed{\text{N}}$

$3379 + 1744 = \boxed{} \rightarrow \boxed{\text{W}}$

$4625 + 5194 = \boxed{} \rightarrow \boxed{\text{E}}$

$1688 + 1573 = \boxed{} \rightarrow \boxed{\text{A}}$

$2253 + 1986 = \boxed{} \rightarrow \boxed{\text{G}}$

$2933 + 6259 = \boxed{} \rightarrow \boxed{\text{R}}$

$2727 + 1410 = \boxed{} \rightarrow \boxed{\text{S}}$

$2357 + 4980 = \boxed{} \rightarrow \boxed{\text{U}}$

$4578 + 2706 = \boxed{} \rightarrow \boxed{\text{D}}$

$1633 + 729 = \boxed{} \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

The team counted rows of glowing candy jars and multiplied them to find the secret hallway number.

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

S															
66	56	10	120	5	8	45	1	1	60	48	10	20	45	77	8
56	120	77	35	56	11	60	10	120	56	120	77	35	56	11	

$11 \times 6 =$

→

S

$11 \times 1 =$

→

H

$5 \times 7 =$

→

N

$1 \times 5 =$

→

E

$10 \times 12 =$

→

R

$7 \times 11 =$

→

U

$8 \times 1 =$

→

D

$6 \times 10 =$

→

B

$8 \times 6 =$

→

Y

$10 \times 1 =$

→

A

$9 \times 5 =$

→

O

$5 \times 4 =$

→

L

$1 \times 1 =$

→

F

$8 \times 7 =$

→

C

Scratch space:

CLUE 4

Rounding

A trick-or-treat radar scanner only shows rounded distances to the nearest hundred.

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

L										L			
500	370	290	30	5000	70	1700	5000	1700	500	9000	30	370	
						L							
300	1100	1300	3000	700	230	500	370	300	9000	30	30	70	370
300	5000	370	700	370									

Round 526 to the nearest hundred → **L**

Round 34 to the nearest ten → **T**

Round 374 to the nearest ten → **E**

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

Round 2,308 to the nearest hundred → **M**

Round 1,344 to the nearest hundred → **R**

Round 1,093 to the nearest hundred → **P**

Round 226 to the nearest ten → **K**

Round 1,687 to the nearest hundred → **O**

Round 287 to the nearest ten → **F**

Round 3,369 to the nearest thousand → **I**

Round 685 to the nearest hundred → **N**

Round 9,135 to the nearest thousand → **A**

Round 66 to the nearest ten → **H**

Round 309 to the nearest hundred → **S**

Scratch space:

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

The inspector split the recovered candy piles equally among the helper goblins to unlock the final riddle.

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:

$20 \div 5 = \boxed{}$

$49 \div 7 = \boxed{}$

$16 \div 8 = \boxed{}$

$8 \div 1 = \boxed{}$

$110 \div 10 = \boxed{}$

$6 \div 1 = \boxed{}$

$60 \div 12 = \boxed{}$

$60 \div 5 = \boxed{}$

$36 \div 4 = \boxed{}$

$36 \div 12 = \boxed{}$

$2 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain raised a marshmallow shield to escape, then left a shiny spider ring behind.
2. The villain threw a sour powder bomb into the kitchen, then grabbed a pumpkin bucket filled with treats.
3. The villain raised a marshmallow shield to escape, then blew a glow whistle to scare the guard.
4. The villain threw a sour powder bomb into the kitchen, then left a shiny spider ring behind.
5. The villain cracked a licorice whip near the door, then grabbed a pumpkin bucket filled with treats.
6. The villain cracked a licorice whip near the door, then blew a glow whistle to scare the guard.
7. The villain shot bubblegum blast at the vault, then left a shiny spider ring behind.
8. The villain raised a marshmallow shield to escape, then floated away using big bat wings.
9. The villain shot bubblegum blast at the vault, then blew a glow whistle to scare the guard.
10. The villain swung a caramel lasso around the safe, then left a shiny spider ring behind.
11. The villain cracked a licorice whip near the door, then left a shiny spider ring behind.
12. The villain swung a caramel lasso around the safe, then blew a glow whistle to scare the guard.

Answer Key

The Great Halloween Candy Caper

Culprit: Pippa Pop

Caramel Lasso · Spider Ring · Right Handed · Chocolate Sprinkles · Crunch Bar Crunch

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A MONSTER WRAPPER"

What is the value of the 8 in 9,481? = 80 (T) · What is the value of the 4 in 64,052? = 4000 (D) · What is the value of the 2 in 8,263? = 200 (U) · What is the value of the 5 in 35,114? = 5000 (H) · What is the value of the 1 in 8,210? = 10 (O) · What is the value of the 7 in 57,845? = 7000 (V) · What is the value of the 7 in 760? = 700 (M) · What is the value of the 5 in 351? = 50 (N) · What is the value of the 3 in 23,942? = 3000 (A) · What is the value of the 3 in 6,130? = 30 (I) · What is the value of the 6 in 26,458? = 6000 (L) · What is the value of the 5 in 8,514? = 500 (W) · What is the value of the 6 in 7,562? = 60 (E) · What is the value of the 1 in 41,933? = 1000 (S) · What is the value of the 7 in 4,571? = 70 (R) · What is the value of the 8 in 891? = 800 (P)

Clue 2 (Addition): "THE SUSPECT DROPPED TRASH WITH RIGHT HAND"

$2185 + 1214 = 3399$ (T) · $2812 + 2932 = 5744$ (I) · $5743 + 3954 = 9697$ (C) · $1894 + 1831 = 3725$ (P) · $3356 + 4175 = 7531$ (H) · $841 + 1288 = 2129$ (N) · $3379 + 1744 = 5123$ (W) · $4625 + 5194 = 9819$ (E) · $1688 + 1573 = 3261$ (A) · $2253 + 1986 = 4239$ (G) · $2933 + 6259 = 9192$ (R) · $2727 + 1410 = 4137$ (S) · $2357 + 4980 = 7337$ (U) · $4578 + 2706 = 7284$ (D) · $1633 + 729 = 2362$ (O)

Clue 3 (Multiplication facts (1-12)): "SCARED OFF BY A LOUD CRUNCH BAR CRUNCH"

$11 \times 6 = 66$ (S) · $11 \times 1 = 11$ (H) · $5 \times 7 = 35$ (N) · $1 \times 5 = 5$ (E) · $10 \times 12 = 120$ (R) · $7 \times 11 = 77$ (U) · $8 \times 1 = 8$ (D) · $6 \times 10 = 60$ (B) · $8 \times 6 = 48$ (Y) · $10 \times 1 = 10$ (A) · $9 \times 5 = 45$ (O) · $5 \times 4 = 20$ (L) · $1 \times 1 = 1$ (F) · $8 \times 7 = 56$ (C)

Clue 4 (Rounding): "LEFT CHOCOLATE SPRINKLES AT THE CRIME SCENE"

Round 526 to the nearest hundred = 500 (L) · Round 34 to the nearest ten = 30 (T) · Round 374 to the nearest ten = 370 (E) · Round 4,995 to the nearest thousand = 5000 (C) · Round 2,308 to the nearest hundred = 2300 (M) · Round 1,344 to the nearest hundred = 1300 (R) · Round 1,093 to the nearest hundred = 1100 (P) · Round 226 to the nearest ten = 230 (K) · Round 1,687 to the nearest hundred = 1700 (O) · Round 287 to the nearest ten = 290 (F) · Round 3,369 to the nearest thousand = 3000 (I) · Round 685 to the nearest hundred = 700 (N) · Round 9,135 to the nearest thousand = 9000 (A) · Round 66 to the nearest ten = 70 (H) · Round 309 to the nearest hundred = 300 (S)

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

$20 \div 5 = 4$ · $49 \div 7 = 7$ · $16 \div 8 = 2$ · $8 \div 1 = 8$ · $110 \div 10 = 11$ · $6 \div 1 = 6$ · $60 \div 12 = 5$ · $60 \div 5 = 12$ · $36 \div 4 = 9$ · $36 \div 12 = 3$ · $2 \div 2 = 1$