The Case of the Missing Halloween Candy Stash

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into the Haunted Gym during the Halloween party and swiped the entire golden pumpkin bucket full of prizes! The Candy Committee President needs your detective skills to find out who did it before the party ends.

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 Halloween Bandit is _____

Possible suspects

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

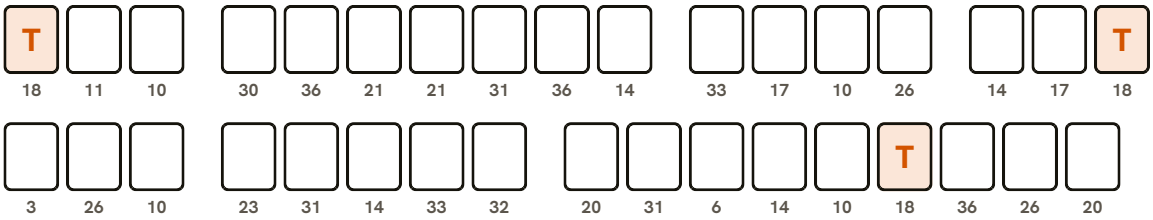
NAME	MAIN POWER	SPECIAL SKILL	SPIDER RING HAND	HAIR STYLE	WEAKNESS
Autumn Blake	Invisibility	Bat Swarm	Right Hand Spider Ring	Orange Wig	Garlic Bread
Marvel Mortis	Flight	Candy Magnetism	Left Hand Spider Ring	Green Hair	Glow Sticks
Luna Night	Invisibility	Potion Brewing	Left Hand Spider Ring	Black Hair	Glow Sticks
Boo Radley	Invisibility	Bat Swarm	Right Hand Spider Ring	Black Hair	Spooky Music
Sabrina Moon	Flight	Pumpkin Blast	Right Hand Spider Ring	Orange Wig	Spooky Music
Spooky Spencer	Super Strength	Ghost Whispering	Left Hand Spider Ring	Green Hair	Garlic Bread
Draco Spells	Invisibility	Pumpkin Blast	Right Hand Spider Ring	Orange Wig	Garlic Bread
Sam Hallow	Shape Shifting	Pumpkin Blast	Left Hand Spider Ring	Green Hair	Glow Sticks
Blair Witch	Invisibility	Pumpkin Blast	Left Hand Spider Ring	Orange Wig	Garlic Bread
Eerie Eric	Invisibility	Potion Brewing	Right Hand Spider Ring	Orange Wig	Spooky Music
Freddy Frost	Teleportation	Candy Magnetism	Right Hand Spider Ring	Black Hair	Garlic Bread
October Sky	Super Strength	Candy Magnetism	Right Hand Spider Ring	Orange Wig	Garlic Bread
Cobwebb Smith	Super Strength	Bat Swarm	Right Hand Spider Ring	Orange Wig	Garlic Bread
Haunted Harvey	Super Strength	Pumpkin Blast	Right Hand Spider Ring	Orange Wig	Glow Sticks
Casper Reed	Flight	Pumpkin Blast	Left Hand Spider Ring	Orange Wig	Garlic Bread
Raven Shade	Invisibility	Ghost Whispering	Right Hand Spider Ring	Orange Wig	Spooky Music
Jack Lantern	Teleportation	Bat Swarm	Right Hand Spider Ring	Green Hair	Spooky Music
Bonez Jones	Flight	Ghost Whispering	Right Hand Spider Ring	Black Hair	Spooky Music
Shadow Shane	Super Strength	Potion Brewing	Right Hand Spider Ring	Green Hair	Garlic Bread
Misty Graves	Shape Shifting	Pumpkin Blast	Left Hand Spider Ring	Green Hair	Spooky Music
Wicked Wendy	Teleportation	Pumpkin Blast	Right Hand Spider Ring	Orange Wig	Garlic Bread

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CLUE 1 Fractions of a number

> The detective checked the guest sign-in sheet. Only a fraction of the invited party guests were seen near the gym stage.

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



1/5 of 90 = ☐ → T

1/8 of 168 = ☐ → L

2/8 of 44 = ☐ → H

7/10 of 20 = ☐ → N

2/4 of 64 = ☐ → Y

2/5 of 50 = ☐ → M

4/10 of 90 = ☐ → I

4/8 of 46 = ☐ → C

2/4 of 60 = ☐ → V

1/3 of 51 = ☐ → O

4/8 of 20 = ☐ → E

1/4 of 124 = ☐ → A

1/4 of 24 = ☐ → G

5/10 of 66 = ☐ → D

1/4 of 12 = ☐ → U

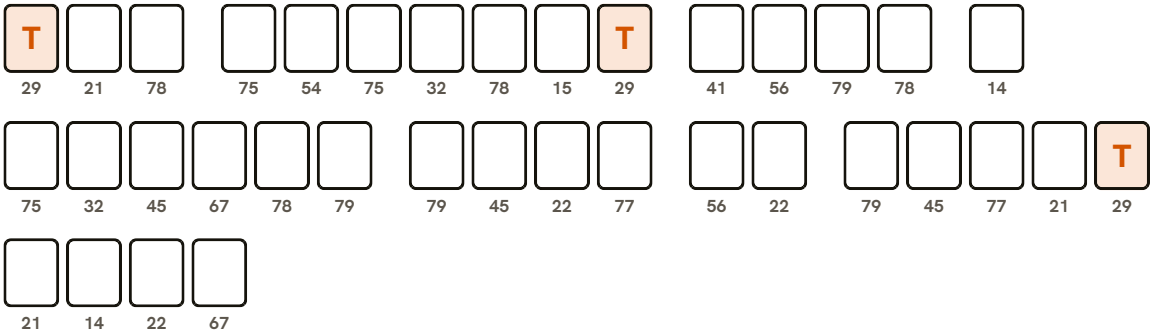
2/8 of 104 = ☐ → S

Scratch space:

CLUE 2 Order of operations

To unlock the gym locker, you must solve the multi-step magic code in the exact order on the scroll.

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



21 + 4 × 2 = ☐ → T

69 + 2 × 4 = ☐ → G

54 + 6 × 4 = ☐ → E

12 + 7 × 6 = ☐ → U

8 × 12 - 21 = ☐ → S

14 + 4 × 2 = ☐ → N

10 × 9 - 11 = ☐ → R

10 × 6 - 28 = ☐ → P

10 × 4 - 19 = ☐ → H

10 × 5 - 5 = ☐ → I

11 + 5 × 9 = ☐ → O

2 + 2 × 6 = ☐ → A

3 × 12 - 21 = ☐ → C

33 + 4 × 2 = ☐ → W

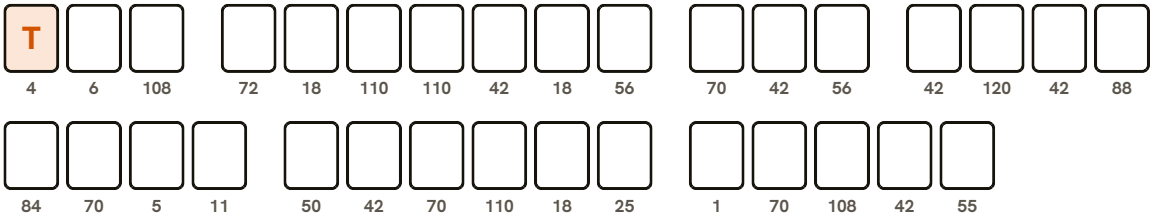
12 × 8 - 29 = ☐ → D

Scratch space:

CLUE 3 Multiplication facts (1-12)

> The detective found equal rows of dropped candy wrappers scattered across the Halloween dance floor.

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



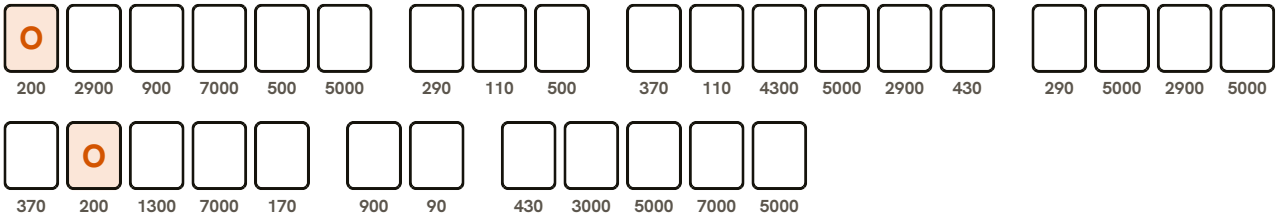
2 × 2 = ☐ → T	6 × 12 = ☐ → V	10 × 12 = ☐ → W
10 × 7 = ☐ → R	11 × 5 = ☐ → D	1 × 1 = ☐ → B
6 × 1 = ☐ → H	11 × 8 = ☐ → Y	12 × 7 = ☐ → F
6 × 7 = ☐ → A	1 × 5 = ☐ → O	10 × 11 = ☐ → L
9 × 12 = ☐ → E	1 × 11 = ☐ → M	8 × 7 = ☐ → N
2 × 9 = ☐ → I	5 × 5 = ☐ → C	10 × 5 = ☐ → G

Scratch space:

CLUE 4 Rounding

The spook-o-meter radar only shows rounded numbers for power readings picked up near the candy display.

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



Round 218 to the nearest hundred ☐ → **O**

Round 876 to the nearest hundred ☐ → **A**

Round 2,779 to the nearest thousand ☐ → **C**

Round 5,074 to the nearest thousand ☐ → **E**

Round 536 to the nearest hundred ☐ → **G**

Round 4,297 to the nearest hundred ☐ → **B**

Round 114 to the nearest ten ☐ → **I**

Round 373 to the nearest ten ☐ → **F**

Round 89 to the nearest ten ☐ → **T**

Round 2,915 to the nearest hundred ☐ → **R**

Round 287 to the nearest ten ☐ → **W**

Round 7,487 to the nearest thousand ☐ → **N**

Round 1,265 to the nearest hundred ☐ → **U**

Round 166 to the nearest ten ☐ → **D**

Round 432 to the nearest ten ☐ → **S**

Scratch space:

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

To figure out where the clues lead, divide the glow sticks equally among the junior detective teams.

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:

24 ÷ 3 = ☐	7 ÷ 7 = ☐	60 ÷ 12 = ☐	6 ÷ 3 = ☐	84 ÷ 7 = ☐
66 ÷ 6 = ☐	40 ÷ 10 = ☐	12 ÷ 2 = ☐	9 ÷ 1 = ☐	18 ÷ 6 = ☐
30 ÷ 3 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain turned invisible near the haunted house, then blasted glowing pumpkin pies.
2. The villain shape shifted into a giant black cat, then summoned a swarm of bats.
3. The villain turned invisible near the haunted house, then whispered to friendly ghosts.
4. The villain teleported behind the trick or treaters, then attracted whole bags of candy.
5. The villain turned invisible near the haunted house, then summoned a swarm of bats.
6. The villain used super strength to lift the heavy tombstone, then whispered to friendly ghosts.
7. The villain used super strength to lift the heavy tombstone, then summoned a swarm of bats.
8. The villain teleported behind the trick or treaters, then blasted glowing pumpkin pies.
9. The villain teleported behind the trick or treaters, then brewed a bubble potion.
10. The villain turned invisible near the haunted house, then attracted whole bags of candy.
11. The villain shape shifted into a giant black cat, then blasted glowing pumpkin pies.
12. The villain shape shifted into a giant black cat, then whispered to friendly ghosts.

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TEACHER / PARENT

Answer Key

The Case of the Missing Halloween Candy Stash

Culprit: Cobwebb Smith

Super Strength · Bat Swarm · Right Hand Spider Ring · Orange Wig · Garlic Bread

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE CANDY MAGNETISM"

1/5 of 90 = 18 (T) · 1/8 of 168 = 21 (L) · 2/8 of 44 = 11 (H) · 7/10 of 20 = 14 (N) · 2/4 of 64 = 32 (Y) · 2/5 of 50 = 20 (M) · 4/10 of 90 = 36 (I) · 4/8 of 46 = 23 (C) · 2/4 of 60 = 30 (V) · 1/3 of 51 = 17 (O) · 4/8 of 20 = 10 (E) · 1/4 of 124 = 31 (A) · 1/4 of 24 = 6 (G) · 5/10 of 66 = 33 (D) · 1/4 of 12 = 3 (U) · 2/8 of 104 = 26 (S)

Clue 2 (Order of operations): "THE SUSPECT WORE A SPIDER RING ON RIGHT HAND"

21 + 4 × 2 = 29 (T) · 69 + 2 × 4 = 77 (G) · 54 + 6 × 4 = 78 (E) · 12 + 7 × 6 = 54 (U) · 8 × 12 - 21 = 75 (S) · 14 + 4 × 2 = 22 (N) · 10 × 9 - 11 = 79 (R) · 10 × 6 - 28 = 32 (P) · 10 × 4 - 19 = 21 (H) · 10 × 5 - 5 = 45 (I) · 11 + 5 × 9 = 56 (O) · 2 + 2 × 6 = 14 (A) · 3 × 12 - 21 = 15 (C) · 33 + 4 × 2 = 41 (W) · 12 × 8 - 29 = 67 (D)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN RAN AWAY FROM GARLIC BREAD"

2 × 2 = 4 (T) · 6 × 12 = 72 (V) · 10 × 12 = 120 (W) · 10 × 7 = 70 (R) · 11 × 5 = 55 (D) · 1 × 1 = 1 (B) · 6 × 1 = 6 (H) · 11 × 8 = 88 (Y) · 12 × 7 = 84 (F) · 6 × 7 = 42 (A) · 1 × 5 = 5 (O) · 10 × 11 = 110 (L) · 9 × 12 = 108 (E) · 1 × 11 = 11 (M) · 8 × 7 = 56 (N) · 2 × 9 = 18 (I) · 5 × 5 = 25 (C) · 10 × 5 = 50 (G)

Clue 4 (Rounding): "ORANGE WIG FIBERS WERE FOUND AT SCENE"

Round 218 to the nearest hundred = 200 (O) · Round 876 to the nearest hundred = 900 (A) · Round 2,779 to the nearest thousand = 3000 (C) · Round 5,074 to the nearest thousand = 5000 (E) · Round 536 to the nearest hundred = 500 (G) · Round 4,297 to the nearest hundred = 4300 (B) · Round 114 to the nearest ten = 110 (I) · Round 373 to the nearest ten = 370 (F) · Round 89 to the nearest ten = 90 (T) · Round 2,915 to the nearest hundred = 2900 (R) · Round 287 to the nearest ten = 290 (W) · Round 7,487 to the nearest thousand = 7000 (N) · Round 1,265 to the nearest hundred = 1300 (U) · Round 166 to the nearest ten = 170 (D) · Round 432 to the nearest ten = 430 (S)

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

24 ÷ 3 = 8 · 7 ÷ 7 = 1 · 60 ÷ 12 = 5 · 6 ÷ 3 = 2 · 84 ÷ 7 = 12 · 66 ÷ 6 = 11 · 40 ÷ 10 = 4 · 12 ÷ 2 = 6 · 9 ÷ 1 = 9 · 18 ÷ 6 = 3 · 30 ÷ 3 = 10