The Great Halloween Candy Caper

Grade 4 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 1-2

Detective: _____ **Date:** _____

Someone took all the prize treats at the Halloween festival. Detective Sam needs your help to decode clues and catch the Spooky Sneak before the party starts.

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 Spooky Sneak is _____

Possible suspects

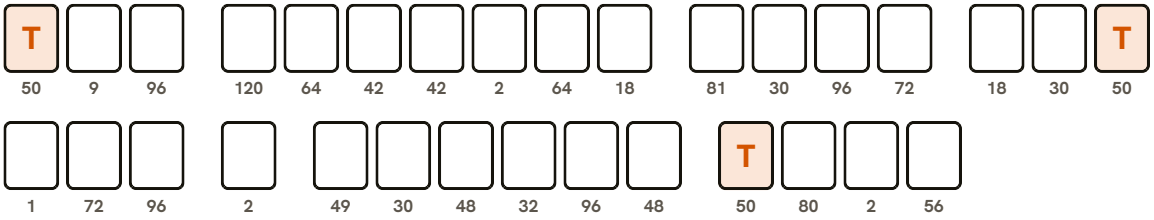
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPOOKY POWER	TRICK ITEM	HANDEDNESS	DISGUISE HAIR	SECRET WEAKNESS
Autumn Amber	Ghost Float	Potion Splash	Left Handed	Green Fur	Silly Songs
Shaggy Rogers	Shadow Vanish	Spooky Howl	Left Handed	Purple Locks	Silly Songs
Piper Pumpkin	Shadow Vanish	Spooky Howl	Left Handed	Orange Wig	Bright Flashlight
Jack O Lantern	Pumpkin Blast	Monster Stomp	Right Handed	Green Fur	Bright Flashlight
Wendy Witch	Shadow Vanish	Potion Splash	Right Handed	Orange Wig	Bright Flashlight
Frankie Stein	Bat Swarm	Spooky Howl	Right Handed	Green Fur	Bright Flashlight
Sabrina Spell	Bat Swarm	Glow Whistle	Left Handed	Green Fur	Garlic Bread
Ghouly Greg	Pumpkin Blast	Potion Splash	Left Handed	Orange Wig	Garlic Bread
Daphne Blake	Ghost Float	Spooky Howl	Left Handed	Orange Wig	Garlic Bread
Buffy Summers	Candy Beam	Monster Stomp	Right Handed	Orange Wig	Bright Flashlight
Igor Bones	Shadow Vanish	Glow Whistle	Right Handed	Purple Locks	Bright Flashlight
Mandy Moon	Candy Beam	Glow Whistle	Left Handed	Orange Wig	Garlic Bread
Morticia Addams	Ghost Float	Potion Splash	Right Handed	Purple Locks	Silly Songs
Casper White	Candy Beam	Cobweb Trap	Left Handed	Purple Locks	Silly Songs
Broomstick Bob	Shadow Vanish	Spooky Howl	Left Handed	Green Fur	Silly Songs
Gomez Addams	Candy Beam	Cobweb Trap	Left Handed	Orange Wig	Garlic Bread
Bram Stoker	Pumpkin Blast	Potion Splash	Right Handed	Purple Locks	Bright Flashlight
Sally Skeleton	Pumpkin Blast	Spooky Howl	Right Handed	Green Fur	Bright Flashlight
Velma Dinkley	Shadow Vanish	Cobweb Trap	Right Handed	Orange Wig	Bright Flashlight
Scooby Doo	Ghost Float	Glow Whistle	Right Handed	Orange Wig	Garlic Bread
Elvira Dark	Candy Beam	Monster Stomp	Left Handed	Orange Wig	Garlic Bread

CLUE 1 Multiplication facts (1-12)

Count the candy bags in each equal row to find the first code.

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



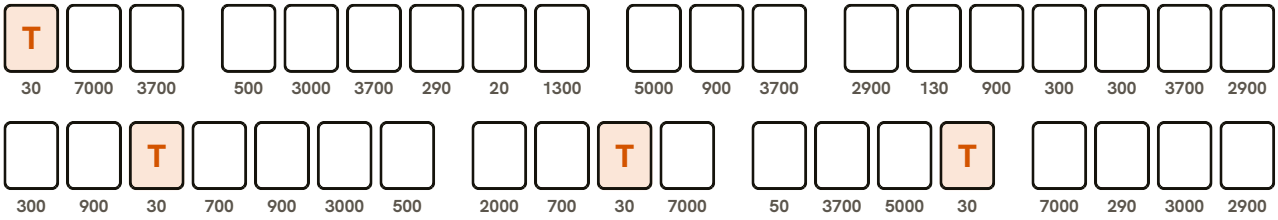
5 × 10 = ☐ → T	6 × 7 = ☐ → L	9 × 2 = ☐ → N	6 × 8 = ☐ → B
1 × 2 = ☐ → A	8 × 8 = ☐ → I	9 × 8 = ☐ → S	8 × 4 = ☐ → W
9 × 1 = ☐ → H	9 × 9 = ☐ → D	10 × 12 = ☐ → V	
1 × 1 = ☐ → U	5 × 6 = ☐ → O	8 × 7 = ☐ → P	7 × 7 = ☐ → C
10 × 8 = ☐ → R	8 × 12 = ☐ → E		

Scratch space:

CLUE 2 Rounding

The spooky bat radar shows approximate numbers rounded to the nearest ten.

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



Round 28 to the nearest ten ☐ → T

Round 2,165 to the nearest thousand ☐ → W

Round 270 to the nearest hundred ☐ → P

Round 286 to the nearest ten ☐ → A

Round 3,734 to the nearest hundred ☐ → E

Round 886 to the nearest hundred ☐ → O

Round 483 to the nearest hundred ☐ → S

Round 128 to the nearest ten ☐ → R

Round 53 to the nearest ten ☐ → L

Round 701 to the nearest hundred ☐ → I

Round 2,899 to the nearest hundred ☐ → D

Round 3,406 to the nearest thousand ☐ → N

Round 5,388 to the nearest thousand ☐ → F

Round 1,268 to the nearest hundred ☐ → Y

Round 21 to the nearest ten ☐ → K

Round 7,197 to the nearest thousand ☐ → H

Scratch space:

CLUE 3 Addition

Add up all the monster cupcakes on the tables to get the next clue.

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



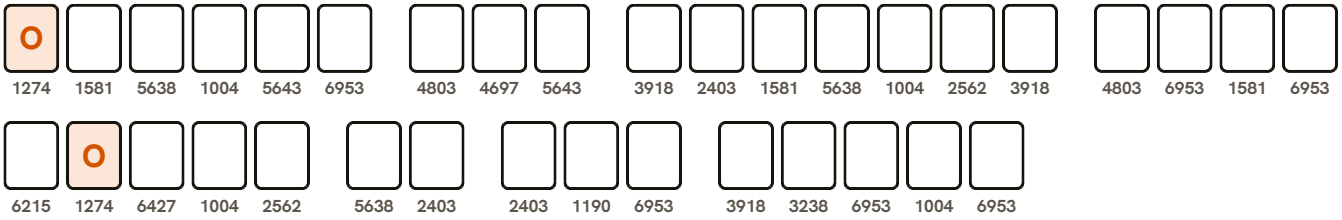
1823 + 4175 = ☐ → T	2104 + 1370 = ☐ → Y	5814 + 2496 = ☐ → E
2667 + 5488 = ☐ → D	1517 + 961 = ☐ → I	2386 + 1221 = ☐ → N
4047 + 3727 = ☐ → C	1433 + 2766 = ☐ → O	3869 + 2445 = ☐ → A
4205 + 4652 = ☐ → F	4314 + 5534 = ☐ → V	5257 + 2841 = ☐ → G
1107 + 1723 = ☐ → W	5050 + 2836 = ☐ → H	3413 + 5130 = ☐ → B
2773 + 2036 = ☐ → M	3782 + 1701 = ☐ → L	3637 + 2123 = ☐ → R

Scratch space:

CLUE 4 Subtraction

Take away the spilled potion jars from the total count to find the leftover code.

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



4097 - 2823 = ☐ → O	8714 - 4796 = ☐ → S	8708 - 2281 = ☐ → U
6998 - 4595 = ☐ → T	4237 - 3047 = ☐ → H	10109 - 3894 = ☐ → F
2675 - 1671 = ☐ → N	2821 - 1240 = ☐ → R	2888 - 326 = ☐ → D
5323 - 626 = ☐ → I	7927 - 2284 = ☐ → G	11926 - 4973 = ☐ → E
5615 - 2377 = ☐ → C	5813 - 175 = ☐ → A	5421 - 618 = ☐ → W

Scratch space:

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

Share the glow sticks equally into party baskets to unlock the final secret.

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:

9 ÷ 1 = ☐	66 ÷ 11 = ☐	55 ÷ 11 = ☐	21 ÷ 7 = ☐	10 ÷ 1 = ☐
32 ÷ 4 = ☐	55 ÷ 5 = ☐	77 ÷ 11 = ☐	40 ÷ 10 = ☐	16 ÷ 8 = ☐
36 ÷ 3 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain floated like a ghost, then made a spooky howl.
2. The villain vanished into shadow, then blew a glow whistle.
3. The villain cast a pumpkin blast, then did a monster stomp.
4. The villain cast a pumpkin blast, then blew a glow whistle.
5. The villain shot a candy beam, then blew a glow whistle.
6. The villain shot a candy beam, then did a monster stomp.
7. The villain vanished into shadow, then did a monster stomp.
8. The villain cast a pumpkin blast, then set a cobweb trap.
9. The villain cast a pumpkin blast, then made a potion splash.
10. The villain summoned a bat swarm, then made a spooky howl.
11. The villain summoned a bat swarm, then did a monster stomp.
12. The villain floated like a ghost, then did a monster stomp.

TEACHER / PARENT

Answer Key

The Great Halloween Candy Caper

Culprit: Daphne Blake

Ghost Float · Spooky Howl · Left Handed · Orange Wig · Garlic Bread

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE A COBWEB TRAP"

5 × 10 = 50 (T) · 6 × 7 = 42 (L) · 9 × 2 = 18 (N) · 6 × 8 = 48 (B) · 1 × 2 = 2 (A) · 8 × 8 = 64 (I) · 9 × 8 = 72 (S) · 8 × 4 = 32 (W) · 9 × 1 = 9 (H) · 9 × 9 = 81 (D) · 10 × 12 = 120 (V) · 1 × 1 = 1 (U) · 5 × 6 = 30 (O) · 8 × 7 = 56 (P) · 7 × 7 = 49 (C) · 10 × 8 = 80 (R) · 8 × 12 = 96 (E)

Clue 2 (Rounding): "THE SNEAKY FOE DROPPED POTIONS WITH LEFT HAND"

Round 28 to the nearest ten = 30 (T) · Round 2,165 to the nearest thousand = 2000 (W) · Round 270 to the nearest hundred = 300 (P) · Round 286 to the nearest ten = 290 (A) · Round 3,734 to the nearest hundred = 3700 (E) · Round 886 to the nearest hundred = 900 (O) · Round 483 to the nearest hundred = 500 (S) · Round 128 to the nearest ten = 130 (R) · Round 53 to the nearest ten = 50 (L) · Round 701 to the nearest hundred = 700 (I) · Round 2,899 to the nearest hundred = 2900 (D) · Round 3,406 to the nearest thousand = 3000 (N) · Round 5,388 to the nearest thousand = 5000 (F) · Round 1,268 to the nearest hundred = 1300 (Y) · Round 21 to the nearest ten = 20 (K) · Round 7,197 to the nearest thousand = 7000 (H)

Clue 3 (Addition): "THE VILLAIN RAN AWAY FROM GARLIC BREAD"

1823 + 4175 = 5998 (T) · 2104 + 1370 = 3474 (Y) · 5814 + 2496 = 8310 (E) · 2667 + 5488 = 8155 (D) · 1517 + 961 = 2478 (I) · 2386 + 1221 = 3607 (N) · 4047 + 3727 = 7774 (C) · 1433 + 2766 = 4199 (O) · 3869 + 2445 = 6314 (A) · 4205 + 4652 = 8857 (F) · 4314 + 5534 = 9848 (V) · 5257 + 2841 = 8098 (G) · 1107 + 1723 = 2830 (W) · 5050 + 2836 = 7886 (H) · 3413 + 5130 = 8543 (B) · 2773 + 2036 = 4809 (M) · 3782 + 1701 = 5483 (L) · 3637 + 2123 = 5760 (R)

Clue 4 (Subtraction): "ORANGE WIG STRANDS WERE FOUND AT THE SCENE"

4097 - 2823 = 1274 (O) · 8714 - 4796 = 3918 (S) · 8708 - 2281 = 6427 (U) · 6998 - 4595 = 2403 (T) · 4237 - 3047 = 1190 (H) · 10109 - 3894 = 6215 (F) · 2675 - 1671 = 1004 (N) · 2821 - 1240 = 1581 (R) · 2888 - 326 = 2562 (D) · 5323 - 626 = 4697 (I) · 7927 - 2284 = 5643 (G) · 11926 - 4973 = 6953 (E) · 5615 - 2377 = 3238 (C) · 5813 - 175 = 5638 (A) · 5421 - 618 = 4803 (W)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Daphne Blake

9 ÷ 1 = 9 · 66 ÷ 11 = 6 · 55 ÷ 11 = 5 · 21 ÷ 7 = 3 · 10 ÷ 1 = 10 · 32 ÷ 4 = 8 · 55 ÷ 5 = 11 · 77 ÷ 11 = 7 · 40 ÷ 10 = 4 · 16 ÷ 8 = 2 · 36 ÷ 3 = 12