The Pumpkin Hollow Heist

Grade 6 math · Percentages, Exponents, Order of operations, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snatched the Glowing Golden Pumpkin right before the grand Halloween contest! Examine the evidence to unmask 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 Pumpkin Thief is _____

Possible suspects

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

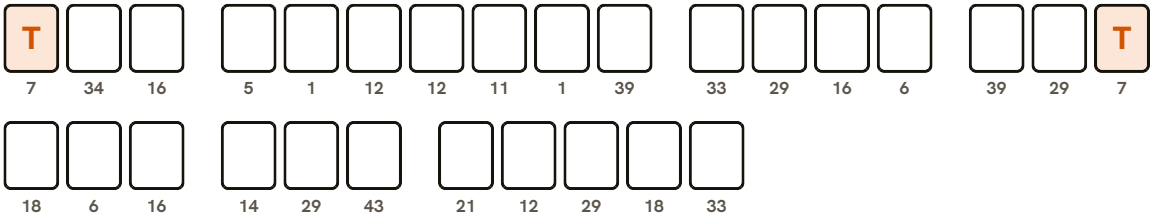
NAME	MAIN POWER	EXTRA POWER	OUTFIT DETAIL	HEADWEAR	WEAKNESS
Penny Pumpkin	Candy Cannon	Spider Web	No Cape	Green Mohawk	Silver Bell
Wanda Witch	Bat Swarm	Glow Aura	Wears Cape	Orange Wig	Garlic Spray
Luna Lantern	Ghost Float	Skeleton Dance	Wears Cape	Green Mohawk	Garlic Spray
Candy Carla	Bat Swarm	Skeleton Dance	Wears Cape	Orange Wig	Garlic Spray
Vera Vamp	Candy Cannon	Glow Aura	Wears Cape	Black Hat	Silver Bell
Ghoulish Gil	Ghost Float	Fog Cloud	Wears Cape	Black Hat	Garlic Spray
Count Jack	Shadow Step	Skeleton Dance	No Cape	Orange Wig	Garlic Spray
Pip Phantom	Bat Swarm	Spider Web	No Cape	Orange Wig	Garlic Spray
Fiona Fog	Pumpkin Blast	Spider Web	Wears Cape	Orange Wig	Bright Flash
Gretel Ghoul	Pumpkin Blast	Spider Web	No Cape	Black Hat	Bright Flash
Spooky Spencer	Pumpkin Blast	Skeleton Dance	Wears Cape	Orange Wig	Garlic Spray
Gabe Ghostly	Bat Swarm	Glow Aura	No Cape	Black Hat	Garlic Spray
Sammy Skeleton	Ghost Float	Spider Web	No Cape	Green Mohawk	Garlic Spray
Specter Sam	Candy Cannon	Spider Web	No Cape	Black Hat	Silver Bell
Barnaby Broom	Bat Swarm	Skeleton Dance	Wears Cape	Orange Wig	Bright Flash
Jasper Jack	Pumpkin Blast	Skeleton Dance	Wears Cape	Orange Wig	Bright Flash
Lady Bram	Candy Cannon	Witch Broom	Wears Cape	Orange Wig	Garlic Spray
Boris Bat	Shadow Step	Fog Cloud	No Cape	Black Hat	Bright Flash
Ollie Owl	Ghost Float	Glow Aura	No Cape	Black Hat	Bright Flash
Frankie Stein	Ghost Float	Spider Web	No Cape	Black Hat	Silver Bell
Mummy Mia	Candy Cannon	Fog Cloud	Wears Cape	Orange Wig	Garlic Spray

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CLUE 1 Percentages

The carver calculated the percentage of missing glowing pumpkins at each decorated porch.

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



20% of 35 = ☐ → T

25% of 84 = ☐ → C

5% of 220 = ☐ → A

20% of 165 = ☐ → D

20% of 145 = ☐ → O

60% of 20 = ☐ → L

10% of 430 = ☐ → G

40% of 35 = ☐ → F

50% of 12 = ☐ → S

50% of 32 = ☐ → E

25% of 20 = ☐ → V

75% of 24 = ☐ → U

75% of 52 = ☐ → N

20% of 170 = ☐ → H

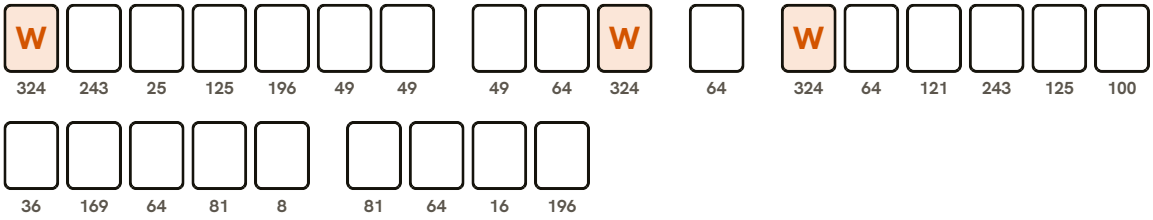
50% of 2 = ☐ → I

Scratch space:

CLUE 2 Exponents

To decode the locked chest, you compare the growth rates of trick-or-treat candy bags.

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



18^2 = ☐ → W

3^5 = ☐ → I

7^2 = ☐ → S

4^2 = ☐ → P

2^3 = ☐ → K

10^2 = ☐ → G

14^2 = ☐ → E

3^4 = ☐ → C

8^2 = ☐ → A

5^3 = ☐ → N

11^2 = ☐ → V

6^2 = ☐ → B

13^2 = ☐ → L

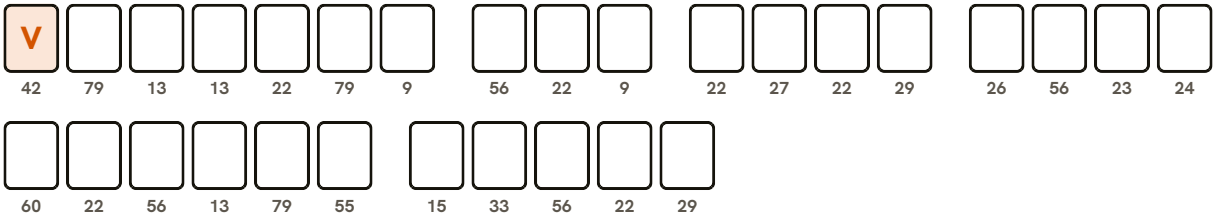
5^2 = ☐ → T

Scratch space:

CLUE 3 Order of operations

You follow the exact sequence of steps written in the secret witch recipe to find a hint.

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



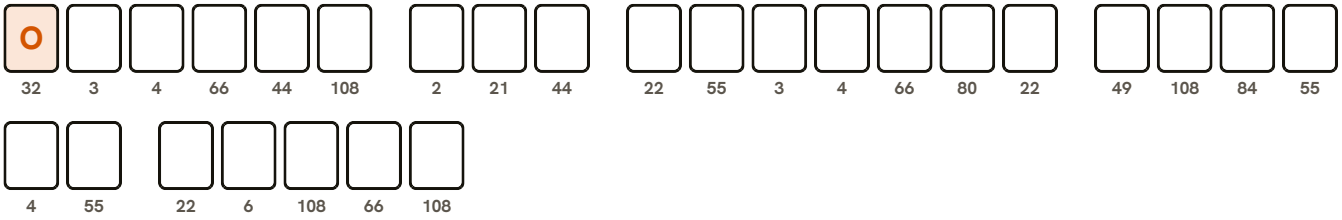
18 + 3 × 8 = ☐ → V	1 + 2 × 4 = ☐ → N	6 × 12 - 17 = ☐ → C
3 + 5 × 6 = ☐ → P	9 × 4 - 12 = ☐ → M	5 + 7 × 3 = ☐ → F
15 + 4 × 2 = ☐ → O	9 × 8 - 12 = ☐ → G	12 × 7 - 28 = ☐ → R
4 + 3 × 3 = ☐ → L	19 + 5 × 2 = ☐ → Y	15 + 3 × 4 = ☐ → W
4 × 11 - 29 = ☐ → S	9 × 11 - 20 = ☐ → I	10 + 3 × 4 = ☐ → A

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The parade path is set with neat equal rows of carved lanterns waiting to be counted.

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



4 × 8 = ☐ → O	3 × 7 = ☐ → I	6 × 1 = ☐ → C	2 × 11 = ☐ → S
12 × 7 = ☐ → F	1 × 2 = ☐ → W	4 × 1 = ☐ → A	
8 × 10 = ☐ → D	6 × 11 = ☐ → N	12 × 9 = ☐ → E	
3 × 1 = ☐ → R	4 × 11 = ☐ → G	5 × 11 = ☐ → T	
7 × 7 = ☐ → L			

Scratch space:

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

> You split the collected wrapped treats equally among the spook patrol volunteers.

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:

70 ÷ 7 = ☐ | 9 ÷ 9 = ☐ | 48 ÷ 8 = ☐ | 88 ÷ 11 = ☐ | 48 ÷ 12 = ☐

120 ÷ 10 = ☐ | 24 ÷ 12 = ☐ | 45 ÷ 9 = ☐ | 12 ÷ 4 = ☐ | 14 ÷ 2 = ☐

99 ÷ 9 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain shot a pumpkin blast, then distracted everyone with a skeleton dance.
2. The villain shot a pumpkin blast, then escaped inside a fog cloud.
3. The villain used ghost float, then distracted everyone with a skeleton dance.
4. The villain summoned a bat swarm, then trapped the guard in a spider web.
5. The villain used ghost float, then trapped the guard in a spider web.
6. The villain summoned a bat swarm, then distracted everyone with a skeleton dance.
7. The villain fired a candy cannon, then trapped the guard in a spider web.
8. The villain took a shadow step, then distracted everyone with a skeleton dance.
9. The villain summoned a bat swarm, then shattered the lantern with a glow aura.
10. The villain fired a candy cannon, then flew off on a witch broom.
11. The villain took a shadow step, then escaped inside a fog cloud.
12. The villain took a shadow step, then trapped the guard in a spider web.

TEACHER / PARENT

Answer Key

The Pumpkin Hollow Heist

Culprit: Wanda Witch

Bat Swarm · Glow Aura · Wears Cape · Orange Wig · Garlic Spray

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

Clue 1 (Percentages): "THE VILLAIN DOES NOT USE FOG CLOUD"

20% of 35 = 7 (T) · 25% of 84 = 21 (C) · 5% of 220 = 11 (A) · 20% of 165 = 33 (D) · 20% of 145 = 29 (O) · 60% of 20 = 12 (L) · 10% of 430 = 43 (G) · 40% of 35 = 14 (F) · 50% of 12 = 6 (S) · 50% of 32 = 16 (E) · 25% of 20 = 5 (V) · 75% of 24 = 18 (U) · 75% of 52 = 39 (N) · 20% of 170 = 34 (H) · 50% of 2 = 1 (I)

Clue 2 (Exponents): "WITNESS SAW A WAVING BLACK CAPE"

18^2 = 324 (W) · 3^5 = 243 (I) · 7^2 = 49 (S) · 4^2 = 16 (P) · 2^3 = 8 (K) · 10^2 = 100 (G) · 14^2 = 196 (E) · 3^4 = 81 (C) · 8^2 = 64 (A) · 5^3 = 125 (N) · 11^2 = 121 (V) · 6^2 = 36 (B) · 13^2 = 169 (L) · 5^2 = 25 (T)

Clue 3 (Order of operations): "VILLAIN RAN AWAY FROM GARLIC SPRAY"

18 + 3 × 8 = 42 (V) · 1 + 2 × 4 = 9 (N) · 6 × 12 - 17 = 55 (C) · 3 + 5 × 6 = 33 (P) · 9 × 4 - 12 = 24 (M) · 5 + 7 × 3 = 26 (F) · 15 + 4 × 2 = 23 (O) · 9 × 8 - 12 = 60 (G) · 12 × 7 - 28 = 56 (R) · 4 + 3 × 3 = 13 (L) · 19 + 5 × 2 = 29 (Y) · 15 + 3 × 4 = 27 (W) · 4 × 11 - 29 = 15 (S) · 9 × 11 - 20 = 79 (I) · 10 + 3 × 4 = 22 (A)

Clue 4 (Multiplication facts (1-12)): "ORANGE WIG STRANDS LEFT AT SCENE"

4 × 8 = 32 (O) · 3 × 7 = 21 (I) · 6 × 1 = 6 (C) · 2 × 11 = 22 (S) · 12 × 7 = 84 (F) · 1 × 2 = 2 (W) · 4 × 1 = 4 (A) · 8 × 10 = 80 (D) · 6 × 11 = 66 (N) · 12 × 9 = 108 (E) · 3 × 1 = 3 (R) · 4 × 11 = 44 (G) · 5 × 11 = 55 (T) · 7 × 7 = 49 (L)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Wanda Witch

70 ÷ 7 = 10 · 9 ÷ 9 = 1 · 48 ÷ 8 = 6 · 88 ÷ 11 = 8 · 48 ÷ 12 = 4 · 120 ÷ 10 = 12 · 24 ÷ 12 = 2 · 45 ÷ 9 = 5 · 12 ÷ 4 = 3 · 14 ÷ 2 = 7 · 99 ÷ 9 = 11