The Great Halloween Candy Caper

Grade 6 math · Addition, Multi-step word problems, Percentages, Exponents, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

On Halloween night, someone snatched the legendary Golden Pumpkin Bucket right off the display stage! The Head Baker saw a masked figure dart away into the twilight. Use your math skills to decode the clues and identify the Halloween trickster before the parade 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 Candy Thief is _____

Possible suspects

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

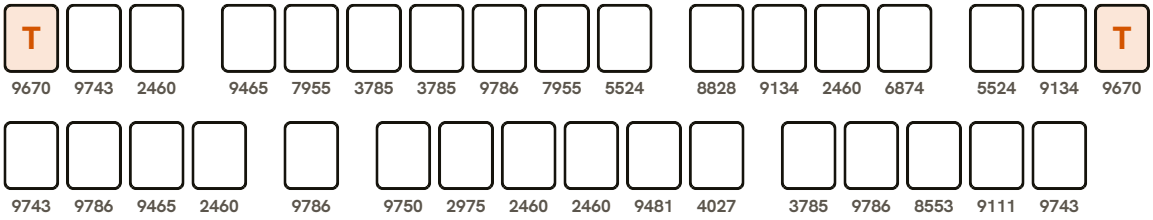
NAME	MAIN POWER	SPECIAL SKILL	HANDEDNESS	WIG COLOR	SECRET FEAR
Morticia	Shadow Step	Creepy Laugh	Right Handed	Silver Hair	Bright Light
Ethan	Ghost Float	Flying Broom	Right Handed	Silver Hair	Bright Light
Ava	Spider Web	Fog Cloak	Left Handed	Black Hair	Loud Bell
Leo	Bat Swarm	Glow Eyes	Right Handed	Black Hair	Loud Bell
Maya	Ghost Float	Magic Wand	Right Handed	Black Hair	Bright Light
Zoe	Ghost Float	Fog Cloak	Left Handed	Orange Wig	Bright Light
Harvey	Spider Web	Fog Cloak	Right Handed	Orange Wig	Garlic Spritz
Dracula	Shadow Step	Creepy Laugh	Left Handed	Black Hair	Loud Bell
Buster	Shadow Step	Magic Wand	Left Handed	Black Hair	Loud Bell
Casper	Shadow Step	Flying Broom	Right Handed	Silver Hair	Bright Light
Wednesday	Pumpkin Blast	Magic Wand	Left Handed	Orange Wig	Bright Light
Oscar	Pumpkin Blast	Flying Broom	Right Handed	Silver Hair	Loud Bell
Lily	Ghost Float	Magic Wand	Left Handed	Black Hair	Loud Bell
Wendy	Shadow Step	Creepy Laugh	Right Handed	Black Hair	Garlic Spritz
Frankenstein	Ghost Float	Magic Wand	Left Handed	Orange Wig	Loud Bell
Gomez	Ghost Float	Magic Wand	Left Handed	Silver Hair	Bright Light
Sam	Bat Swarm	Magic Wand	Left Handed	Black Hair	Garlic Spritz
Pippa	Spider Web	Fog Cloak	Right Handed	Silver Hair	Garlic Spritz
Chloe	Spider Web	Fog Cloak	Right Handed	Orange Wig	Bright Light
Milo	Pumpkin Blast	Glow Eyes	Left Handed	Orange Wig	Loud Bell
Jack	Pumpkin Blast	Glow Eyes	Left Handed	Black Hair	Loud Bell

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CLUE 1 Addition

The pumpkin baker needs help figuring out how many total treat bags were filled across several steps.

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



5760 + 3910 = ☐ → T	2277 + 1750 = ☐ → Y	6196 + 3547 = ☐ → H
1339 + 2446 = ☐ → L	5064 + 3764 = ☐ → D	5532 + 3933 = ☐ → V
4429 + 4705 = ☐ → O	4901 + 3054 = ☐ → I	4044 + 5742 = ☐ → A
4239 + 5511 = ☐ → C	1447 + 1528 = ☐ → R	2917 + 5636 = ☐ → U
5580 + 3531 = ☐ → G	2165 + 3359 = ☐ → N	1172 + 1288 = ☐ → E
2271 + 4603 = ☐ → S	2939 + 6542 = ☐ → P	

Scratch space:

CLUE 2 Multi-step word problems

You inspect the porch steps and add up all the dropped candy wrappers to find the trail.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L							D		D
36	73	77	23	75	60	14		73	

.

There were 137 mini pumpkins in all. 29 mini pumpkins were set aside. The rest were shared equally among 3 halloween patrol. How many mini pumpkins did each get?

Answer: ☐ → **L**

Pumpkin baker earned 2 glow sticks in each of 3 rounds, plus 60 bonus glow sticks. Then 6 glow sticks were lost. How many glow sticks are left?

Answer: ☐ → **A**

There were 74 bat stickers in all. 2 halloween patrol used 23 bat stickers each. The other 2 halloween patrol shared the rest equally. How many bat stickers did each of the other halloween patrol get?

Answer: ☐ → **N**

Pumpkin baker collected 439 bat stickers in the morning and 11 bat stickers in the afternoon, then split them equally among 6 halloween patrol. How many bat stickers did each get?

Answer: ☐ → **H**

There were 396 candy corn in all. 1 halloween patrol used 31 candy corn each. The other 5 halloween patrol shared the rest equally. How many candy corn did each of the other halloween patrol get?

Answer: ☐ → **E**

There were 411 mini pumpkins in all. 2 halloween patrol used 13 mini pumpkins each. The other 5 halloween patrol shared the rest equally. How many mini pumpkins did each of the other halloween patrol get?

Answer: ☐ → **F**

There were 68 glow sticks in all. 1 halloween patrol used 22 glow sticks each. The other 2 halloween patrol shared the rest equally. How many glow sticks did each of the other halloween patrol get?

Answer: ☐ → **T**

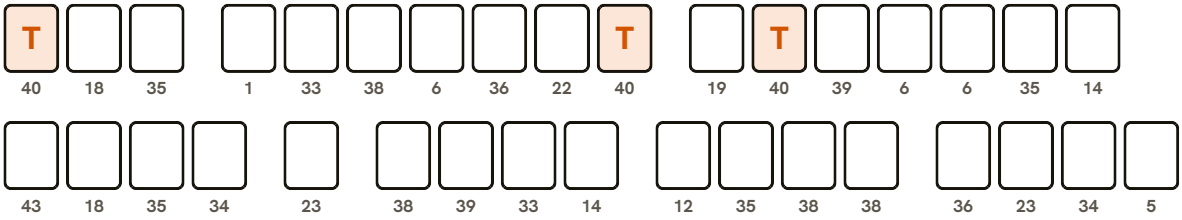
Scratch space:

CLUE 3

Percentages

A spooky lantern test reveals what portion of the witch hat glitter matched the culprit.

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



10% of 400 = ☐ → T

40% of 35 = ☐ → D

20% of 90 = ☐ → H

60% of 20 = ☐ → B

60% of 60 = ☐ → R

10% of 390 = ☐ → O

25% of 4 = ☐ → C

20% of 170 = ☐ → N

25% of 92 = ☐ → A

40% of 55 = ☐ → I

25% of 24 = ☐ → P

10% of 430 = ☐ → W

5% of 760 = ☐ → L

20% of 95 = ☐ → S

10% of 50 = ☐ → G

5% of 700 = ☐ → E

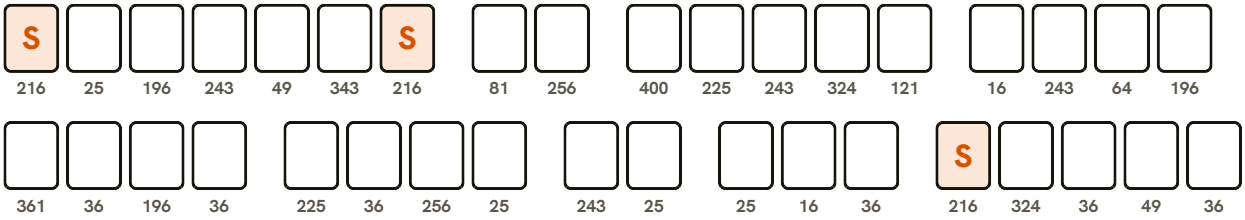
10% of 330 = ☐ → U

Scratch space:

CLUE 4 Exponents

You study how the bat power grew in square groups to unlock the secret code.

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



6^3 = ☐ → S | 7^3 = ☐ → D | 3^5 = ☐ → A | 7^2 = ☐ → N

16^2 = ☐ → F | 6^2 = ☐ → E | 4^2 = ☐ → H | 8^2 = ☐ → I

3^4 = ☐ → O | 5^2 = ☐ → T | 15^2 = ☐ → L | 14^2 = ☐ → R

11^2 = ☐ → K | 18^2 = ☐ → C | 20^2 = ☐ → B | 19^2 = ☐ → W

Scratch space:

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

> You share the remaining glow sticks equally among the kids to uncover the final trace.

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:

22 ÷ 11 = ☐ | 48 ÷ 4 = ☐ | 4 ÷ 4 = ☐ | 132 ÷ 12 = ☐ | 20 ÷ 4 = ☐

28 ÷ 4 = ☐ | 10 ÷ 1 = ☐ | 40 ÷ 5 = ☐ | 36 ÷ 6 = ☐ | 16 ÷ 4 = ☐

3 ÷ 1 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain floated like a ghost, then waved a magic wand.
2. The villain stepped into shadows, then waved a magic wand.
3. The villain floated like a ghost, then flew on a broom.
4. The villain floated like a ghost, then giggled softly.
5. The villain shot a spider web, then flew on a broom.
6. The villain blasted a pumpkin beam, then flew on a broom.
7. The villain floated like a ghost, then flashed glow eyes.
8. The villain stepped into shadows, then flashed glow eyes.
9. The villain blasted a pumpkin beam, then flashed glow eyes.
10. The villain shot a spider web, then flashed glow eyes.
11. The villain blasted a pumpkin beam, then waved a magic wand.
12. The villain shot a spider web, then vanished in fog.

TEACHER / PARENT

Answer Key

The Great Halloween Candy Caper

Culprit: Jack

Pumpkin Blast · Glow Eyes · Left Handed · Black Hair · Loud Bell

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE A CREEPY LAUGH"

5760 + 3910 = 9670 (T) · 2277 + 1750 = 4027 (Y) · 6196 + 3547 = 9743 (H) · 1339 + 2446 = 3785 (L) · 5064 + 3764 = 8828 (D) · 5532 + 3933 = 9465 (V) · 4429 + 4705 = 9134 (O) · 4901 + 3054 = 7955 (I) · 4044 + 5742 = 9786 (A) · 4239 + 5511 = 9750 (C) · 1447 + 1528 = 2975 (R) · 2917 + 5636 = 8553 (U) · 5580 + 3531 = 9111 (G) · 2165 + 3359 = 5524 (N) · 1172 + 1288 = 2460 (E) · 2271 + 4603 = 6874 (S) · 2939 + 6542 = 9481 (P)

Clue 2 (Multi-step word problems): "LEFT HANDED"

There were 137 mini pumpkins in all. 29 mini pumpkins were set aside. The rest were shared equally among 3 halloween patrol. How many mini pumpkins did each get? = 36 (L) · Pumpkin baker earned 2 glow sticks in each of 3 rounds, plus 60 bonus glow sticks. Then 6 glow sticks were lost. How many glow sticks are left? = 60 (A) · There were 74 bat stickers in all. 2 halloween patrol used 23 bat stickers each. The other 2 halloween patrol shared the rest equally. How many bat stickers did each of the other halloween patrol get? = 14 (N) · Pumpkin baker collected 439 bat stickers in the morning and 11 bat stickers in the afternoon, then split them equally among 6 halloween patrol. How many bat stickers did each get? = 75 (H) · There were 396 candy corn in all. 1 halloween patrol used 31 candy corn each. The other 5 halloween patrol shared the rest equally. How many candy corn did each of the other halloween patrol get? = 73 (E) · There were 411 mini pumpkins in all. 2 halloween patrol used 13 mini pumpkins each. The other 5 halloween patrol shared the rest equally. How many mini pumpkins did each of the other halloween patrol get? = 77 (F) · There were 68 glow sticks in all. 1 halloween patrol used 22 glow sticks each. The other 2 halloween patrol shared the rest equally. How many glow sticks did each of the other halloween patrol get? = 23 (T)

Clue 3 (Percentages): "THE CULPRIT STOPPED WHEN A LOUD BELL RANG"

10% of 400 = 40 (T) · 40% of 35 = 14 (D) · 20% of 90 = 18 (H) · 60% of 20 = 12 (B) · 60% of 60 = 36 (R) · 10% of 390 = 39 (O) · 25% of 4 = 1 (C) · 20% of 170 = 34 (N) · 25% of 92 = 23 (A) · 40% of 55 = 22 (I) · 25% of 24 = 6 (P) · 10% of 430 = 43 (W) · 5% of 760 = 38 (L) · 20% of 95 = 19 (S) · 10% of 50 = 5 (G) · 5% of 700 = 35 (E) · 10% of 330 = 33 (U)

Clue 4 (Exponents): "STRANDS OF BLACK HAIR WERE LEFT AT THE SCENE"

6^3 = 216 (S) · 7^3 = 343 (D) · 3^5 = 243 (A) · 7^2 = 49 (N) · 16^2 = 256 (F) · 6^2 = 36 (E) · 4^2 = 16 (H) · 8^2 = 64 (I) · 3^4 = 81 (O) · 5^2 = 25 (T) · 15^2 = 225 (L) · 14^2 = 196 (R) · 11^2 = 121 (K) · 18^2 = 324 (C) · 20^2 = 400 (B) · 19^2 = 361 (W)

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

22 ÷ 11 = 2 · 48 ÷ 4 = 12 · 4 ÷ 4 = 1 · 132 ÷ 12 = 11 · 20 ÷ 4 = 5 · 28 ÷ 4 = 7 · 10 ÷ 1 = 10 · 40 ÷ 5 = 8 · 36 ÷ 6 = 6 · 16 ÷ 4 = 4 · 3 ÷ 1 = 3