



The Shiz University Grimmerie Heist

Grade 5 math · Rounding, Multiplication, Fractions of a number, Order of operations, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone spiked the Ozdust Ballroom punch with a levitation brew and snatched the ancient Grimmerie. Detective, inspect the evidence around campus to uncover which sorcerer pulled off the heist.

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 Rogue Sorcerer is _____

Possible suspects

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

NAME	SPELL TYPE	MAGICAL GEAR	WAND HAND	HAIRSTYLE	WEAKNESS
Pfannee	Illusion	Flying Broom	Right Handed	Curly Updo	Water Buckets
The Wizard	Animal Speech	Crystal Orb	Right Handed	Braided Pigtails	Silver Bells
ShenShen	Weather Control	Emerald Amulet	Left Handed	Braided Pigtails	Poppies
Boq Woodsman	Pyrokinesis	Flying Broom	Right Handed	Braided Pigtails	Silver Bells
Avaric Tenteuch	Levitation	Crystal Orb	Left Handed	Sleek Bob	Poppies
Sarima	Illusion	Golden Cap	Right Handed	Curly Updo	Silver Bells
Galinda Upland	Weather Control	Flying Broom	Left Handed	Braided Pigtails	Silver Bells
Nessarose Thropp	Levitation	Flying Broom	Right Handed	Braided Pigtails	Water Buckets
Kamo	Animal Speech	Emerald Amulet	Left Handed	Braided Pigtails	Silver Bells
Doctor Dillamond	Illusion	Silver Slippers	Left Handed	Curly Updo	Silver Bells
Fiyero Tiggular	Levitation	Emerald Amulet	Right Handed	Braided Pigtails	Silver Bells
Frexspar Thropp	Weather Control	Flying Broom	Left Handed	Sleek Bob	Water Buckets
Gaye	Weather Control	Flying Broom	Right Handed	Braided Pigtails	Water Buckets
Elphaba Thropp	Weather Control	Emerald Amulet	Left Handed	Sleek Bob	Poppies
Crope	Animal Speech	Flying Broom	Left Handed	Braided Pigtails	Silver Bells
Chistery	Animal Speech	Silver Slippers	Right Handed	Braided Pigtails	Silver Bells
Dorothy Gale	Animal Speech	Golden Cap	Right Handed	Braided Pigtails	Silver Bells
Tibbett	Weather Control	Crystal Orb	Left Handed	Sleek Bob	Poppies
Rain	Weather Control	Crystal Orb	Right Handed	Braided Pigtails	Poppies
Nor	Illusion	Emerald Amulet	Right Handed	Curly Updo	Silver Bells
Melena Thropp	Illusion	Crystal Orb	Right Handed	Braided Pigtails	Silver Bells

CLUE 1

The Shiz tower clock meter shows estimated magical energy output rounded to the nearest hundred.

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

Diagram illustrating a sequence of numbers arranged in two rows, with some boxes highlighted in orange and labeled 'T'.

Top Row (15 boxes):

- Box 1 (Orange, T): 300
- Box 2: 70
- Box 3: 2000
- Box 4: 4300
- Box 5: 1100
- Box 6: 4300
- Box 7: 1700
- Box 8: 2000
- Box 9: 3700
- Box 10 (Orange, T): 300
- Box 11: 1300
- Box 12: 130
- Box 13: 2000
- Box 14: 4300
- Box 15: 50
- Box 16: 130
- Box 17 (Orange, T): 300

Bottom Row (15 boxes):

- Box 1: 1100
- Box 2: 4300
- Box 3: 2000
- Box 4: 90
- Box 5: 3700
- Box 6: 500
- Box 7: 20
- Box 8: 4300
- Box 9 (Orange, T): 300
- Box 10: 90
- Box 11: 900
- Box 12: 130
- Box 13: 500
- Box 14: 30

Round 288 to the nearest hundred $\rightarrow$ **T**

Round 66 to the nearest ten $\rightarrow$ **H**

Round 1,725 to the nearest hundred $\rightarrow$ **P**

Round 33 to the nearest ten $\rightarrow$ **B**

Round 3,698 to the nearest hundred → **C**

Round 90 to the nearest ten $\rightarrow$ **A**

Round 126 to the nearest ten $\rightarrow$

Round 54 to the nearest ten $\rightarrow$ **N**

Round 1,081 to the nearest hundred → **U**

Round 18 to the nearest ten $\rightarrow$ **Y**

Round 463 to the nearest hundred $\rightarrow$ **R**

Round 912 to the nearest hundred $\rightarrow$ **L**

Round 1,817 to the nearest thousand → **E**

Round 1,314 to the nearest hundred → **D**

Round 4,332 to the nearest hundred → **S**

Scratch space:

CLUE 2
Multiplication facts (1-12)

In the potion laboratory, rows of glowing vials are stored in equal trays.

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

T									T										
4	7	56	108	50	56	40	40	4	90	70	30	56	108	7	110	18	108	70	

				T															
90	121	120	7	4	7	70	88	2	56	2	120	90	121	50					

$2 \times 2 = \square \rightarrow \boxed{\text{T}}$

$1 \times 2 = \square \rightarrow \boxed{\text{D}}$

$8 \times 7 = \square \rightarrow \boxed{\text{E}}$

$3 \times 6 = \square \rightarrow \boxed{\text{W}}$

$7 \times 1 = \square \rightarrow \boxed{\text{H}}$

$3 \times 10 = \square \rightarrow \boxed{\text{C}}$

$10 \times 11 = \square \rightarrow \boxed{\text{O}}$

$9 \times 12 = \square \rightarrow \boxed{\text{S}}$

$10 \times 9 = \square \rightarrow \boxed{\text{R}}$

$10 \times 5 = \square \rightarrow \boxed{\text{P}}$

$10 \times 4 = \square \rightarrow \boxed{\text{L}}$

$10 \times 7 = \square \rightarrow \boxed{\text{A}}$

$11 \times 11 = \square \rightarrow \boxed{\text{I}}$

$8 \times 11 = \square \rightarrow \boxed{\text{N}}$

$10 \times 12 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 3
Fractions of a number

The library ledger shows only a fractional share of restricted grimoires was borrowed.

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

T							T											
20	22	10	14	9	12	20	26	13	38	8	9	12	15	35	17	3	10	13

15	19	35	26	13	38	26	13	38	15	10	30	30	12	

$2/8 \text{ of } 80 = \square \rightarrow \boxed{\text{T}}$

$1/3 \text{ of } 105 = \square \rightarrow \boxed{\text{R}}$

$2/5 \text{ of } 55 = \square \rightarrow \boxed{\text{H}}$

$4/10 \text{ of } 35 = \square \rightarrow \boxed{\text{C}}$

$2/4 \text{ of } 24 = \square \rightarrow \boxed{\text{S}}$

$1/4 \text{ of } 104 = \square \rightarrow \boxed{\text{I}}$

$4/8 \text{ of } 16 = \square \rightarrow \boxed{\text{W}}$

$1/10 \text{ of } 130 = \square \rightarrow \boxed{\text{N}}$

$1/3 \text{ of } 45 = \square \rightarrow \boxed{\text{B}}$

$3/8 \text{ of } 8 = \square \rightarrow \boxed{\text{K}}$

$3/6 \text{ of } 76 = \square \rightarrow \boxed{\text{G}}$

$1/5 \text{ of } 150 = \square \rightarrow \boxed{\text{L}}$

$1/4 \text{ of } 76 = \square \rightarrow \boxed{\text{Y}}$

$2/3 \text{ of } 15 = \square \rightarrow \boxed{\text{E}}$

$3/6 \text{ of } 18 = \square \rightarrow \boxed{\text{A}}$

$1/8 \text{ of } 136 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4
Order of operations

To decode the lock scroll, you must evaluate the spell formula step by step.

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

A							A						A				A	
58	72	33	69	37	9	22	58	32	61	19	61	65	58	32	22	44	58	53
				A														
72	19	14	73	58	73	73	65	19	53	64	19	69	19					

$9 \times 9 - 23 = \boxed{} \rightarrow \boxed{\text{A}}$

$8 + 9 \times 5 = \boxed{} \rightarrow \boxed{\text{S}}$

$7 \times 11 - 4 = \boxed{} \rightarrow \boxed{\text{T}}$

$9 + 5 \times 7 = \boxed{} \rightarrow \boxed{\text{W}}$

$10 \times 5 - 28 = \boxed{} \rightarrow \boxed{\text{R}}$

$8 \times 9 - 3 = \boxed{} \rightarrow \boxed{\text{N}}$

$36 + 6 \times 6 = \boxed{} \rightarrow \boxed{\text{L}}$

$9 \times 5 - 12 = \boxed{} \rightarrow \boxed{\text{O}}$

$5 + 7 \times 2 = \boxed{} \rightarrow \boxed{\text{E}}$

$4 \times 5 - 11 = \boxed{} \rightarrow \boxed{\text{B}}$

$10 + 9 \times 6 = \boxed{} \rightarrow \boxed{\text{C}}$

$10 \times 9 - 25 = \boxed{} \rightarrow \boxed{\text{H}}$

$10 \times 7 - 9 = \boxed{} \rightarrow \boxed{\text{D}}$

$6 + 4 \times 2 = \boxed{} \rightarrow \boxed{\text{F}}$

$10 \times 5 - 13 = \boxed{} \rightarrow \boxed{\text{G}}$

$28 + 2 \times 2 = \boxed{} \rightarrow \boxed{\text{I}}$

Scratch space:

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

The quad guards divided the remaining flying monkey rations equally among their posts.

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:

$15 \div 3 = \boxed{}$

$77 \div 7 = \boxed{}$

$72 \div 9 = \boxed{}$

$3 \div 3 = \boxed{}$

$84 \div 12 = \boxed{}$

$12 \div 6 = \boxed{}$

$18 \div 2 = \boxed{}$

$24 \div 4 = \boxed{}$

$40 \div 10 = \boxed{}$

$120 \div 12 = \boxed{}$

$21 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain casts levitation charms, then gazes into the crystal orb.
2. The villain casts levitation charms, then clicks the silver slippers.
3. The villain casts levitation charms, then adjusts the golden cap.
4. The villain sparks pyrokinetic flames, then clicks the silver slippers.
5. The villain speaks in animal tongues, then adjusts the golden cap.
6. The villain weaves shimmering illusions, then polishes the emerald amulet.
7. The villain summons wild weather, then soars on a flying broom.
8. The villain speaks in animal tongues, then clicks the silver slippers.
9. The villain weaves shimmering illusions, then adjusts the golden cap.
10. The villain summons wild weather, then polishes the emerald amulet.
11. The villain casts levitation charms, then polishes the emerald amulet.
12. The villain sparks pyrokinetic flames, then soars on a flying broom.

Answer Key

The Shiz University Grimmerie Heist

Culprit: Boq Woodsman

Pyrokinesis · Flying Broom · Right Handed · Braided Pigtails · Silver Bells

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SUSPECT DOES NOT USE A CRYSTAL ORB"

Round 288 to the nearest hundred = 300 (T) · Round 66 to the nearest ten = 70 (H) · Round 1,725 to the nearest hundred = 1700 (P) · Round 33 to the nearest ten = 30 (B) · Round 3,698 to the nearest hundred = 3700 (C) · Round 90 to the nearest ten = 90 (A) · Round 126 to the nearest ten = 130 (O) · Round 54 to the nearest ten = 50 (N) · Round 1,081 to the nearest hundred = 1100 (U) · Round 18 to the nearest ten = 20 (Y) · Round 463 to the nearest hundred = 500 (R) · Round 912 to the nearest hundred = 900 (L) · Round 1,817 to the nearest thousand = 2000 (E) · Round 1,314 to the nearest hundred = 1300 (D) · Round 4,332 to the nearest hundred = 4300 (S)

Clue 2 (Multiplication facts (1-12)): "THE SPELL TRACE SHOWS A RIGHT HANDED GRIP"

$2 \times 2 = 4$ (T) · $1 \times 2 = 2$ (D) · $8 \times 7 = 56$ (E) · $3 \times 6 = 18$ (W) · $7 \times 1 = 7$ (H) · $3 \times 10 = 30$ (C) · $10 \times 11 = 110$ (O) · $9 \times 12 = 108$ (S) · $10 \times 9 = 90$ (R) · $10 \times 5 = 50$ (P) · $10 \times 4 = 40$ (L) · $10 \times 7 = 70$ (A) · $11 \times 11 = 121$ (I) · $8 \times 11 = 88$ (N) · $10 \times 12 = 120$ (G)

Clue 3 (Fractions of a number): "THE CASTING WAS BROKEN BY RINGING BELLS"

$2/8$ of 80 = 20 (T) · $1/3$ of 105 = 35 (R) · $2/5$ of 55 = 22 (H) · $4/10$ of 35 = 14 (C) · $2/4$ of 24 = 12 (S) · $1/4$ of 104 = 26 (I) · $4/8$ of 16 = 8 (W) · $1/10$ of 130 = 13 (N) · $1/3$ of 45 = 15 (B) · $3/8$ of 8 = 3 (K) · $3/6$ of 76 = 38 (G) · $1/5$ of 150 = 30 (L) · $1/4$ of 76 = 19 (Y) · $2/3$ of 15 = 10 (E) · $3/6$ of 18 = 9 (A) · $1/8$ of 136 = 17 (O)

Clue 4 (Order of operations): "A LONG BRAIDED HAIR WAS LEFT AT THE SCENE"

$9 \times 9 - 23 = 58$ (A) · $8 + 9 \times 5 = 53$ (S) · $7 \times 11 - 4 = 73$ (T) · $9 + 5 \times 7 = 44$ (W) · $10 \times 5 - 28 = 22$ (R) · $8 \times 9 - 3 = 69$ (N) · $36 + 6 \times 6 = 72$ (L) · $9 \times 5 - 12 = 33$ (O) · $5 + 7 \times 2 = 19$ (E) · $4 \times 5 - 11 = 9$ (B) · $10 + 9 \times 6 = 64$ (C) · $10 \times 9 - 25 = 65$ (H) · $10 \times 7 - 9 = 61$ (D) · $6 + 4 \times 2 = 14$ (F) · $10 \times 5 - 13 = 37$ (G) · $28 + 2 \times 2 = 32$ (I)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Boq Woodsman

$15 \div 3 = 5$ · $77 \div 7 = 11$ · $72 \div 9 = 8$ · $3 \div 3 = 1$ · $84 \div 12 = 7$ · $12 \div 6 = 2$ · $18 \div 2 = 9$ · $24 \div 4 = 6$ · $40 \div 10 = 4$ · $120 \div 12 = 10$ · $21 \div 7 = 3$