The Case of the Missing Golden Bookmark

Grade 4 math · Fractions of a number, Rounding, Addition, Subtraction · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky villain snuck into the Whispering Willow Library and stole the sacred Golden Bookmark! Use your reading clues and math skills to solve the mystery before the story 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 Ink Thief is _____

Possible suspects

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

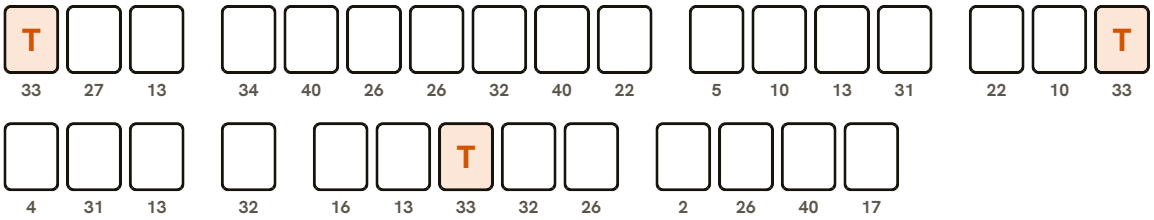
NAME	LITERARY SPELL	BOOKMARK STYLE	READING STYLE	INK STREAK COLOR	WEAKNESS
Reed Reader	Paper Folding	Pressed Flower	Reads With Spectacles	Gold Ink Streak	Bright Reading Lamps
Chloe Chapter	Shadow Pages	Ribbon Bookmark	Reads With Spectacles	Blue Ink Streak	Heavy Dust Dusters
Harper Binding	Book Teleporting	Leather Strap	Reads Without Spectacles	Gold Ink Streak	Bright Reading Lamps
Quill Quentin	Ink Blotting	Metal Clip	Reads Without Spectacles	Blue Ink Streak	Heavy Dust Dusters
Tome Tommy	Whispering Words	Pressed Flower	Reads Without Spectacles	Blue Ink Streak	Heavy Dust Dusters
Page Turner	Ink Blotting	Leather Strap	Reads Without Spectacles	Gold Ink Streak	Heavy Dust Dusters
Penny Paper	Ink Blotting	Golden Tassel	Reads Without Spectacles	Blue Ink Streak	Loud Paper Shredders
Percy Parchment	Whispering Words	Metal Clip	Reads With Spectacles	Silver Ink Streak	Loud Paper Shredders
Novel Norris	Shadow Pages	Pressed Flower	Reads With Spectacles	Silver Ink Streak	Bright Reading Lamps
Silas Scribble	Whispering Words	Golden Tassel	Reads With Spectacles	Gold Ink Streak	Loud Paper Shredders
Sam Script	Whispering Words	Ribbon Bookmark	Reads With Spectacles	Silver Ink Streak	Loud Paper Shredders
Readers Vance	Paper Folding	Pressed Flower	Reads Without Spectacles	Silver Ink Streak	Bright Reading Lamps
Tessa Tale	Whispering Words	Golden Tassel	Reads With Spectacles	Silver Ink Streak	Loud Paper Shredders
Libby Library	Book Teleporting	Ribbon Bookmark	Reads With Spectacles	Silver Ink Streak	Heavy Dust Dusters
Author Artie	Shadow Pages	Leather Strap	Reads Without Spectacles	Gold Ink Streak	Bright Reading Lamps
Rita Read	Book Teleporting	Metal Clip	Reads Without Spectacles	Gold Ink Streak	Bright Reading Lamps
Inkling Isaac	Shadow Pages	Ribbon Bookmark	Reads Without Spectacles	Gold Ink Streak	Bright Reading Lamps
Brooks Cover	Ink Blotting	Pressed Flower	Reads With Spectacles	Blue Ink Streak	Heavy Dust Dusters
Story Sterling	Paper Folding	Metal Clip	Reads With Spectacles	Silver Ink Streak	Heavy Dust Dusters
Walter Words	Shadow Pages	Pressed Flower	Reads Without Spectacles	Silver Ink Streak	Bright Reading Lamps
Gaby Guild	Whispering Words	Golden Tassel	Reads Without Spectacles	Gold Ink Streak	Bright Reading Lamps

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CLUE 1 Fractions of a number

> To narrow down the bookmark styles, the detective checked a fraction of the enchanted library inventory ledger.

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



6/10 of 55 = ☐ → T

1/8 of 40 = ☐ → D

1/2 of 4 = ☐ → C

5/10 of 54 = ☐ → H

2/6 of 51 = ☐ → P

2/4 of 20 = ☐ → O

3/6 of 52 = ☐ → L

4/10 of 40 = ☐ → M

1/2 of 44 = ☐ → N

3/6 of 8 = ☐ → U

4/8 of 64 = ☐ → A

2/4 of 26 = ☐ → E

1/6 of 186 = ☐ → S

4/8 of 80 = ☐ → I

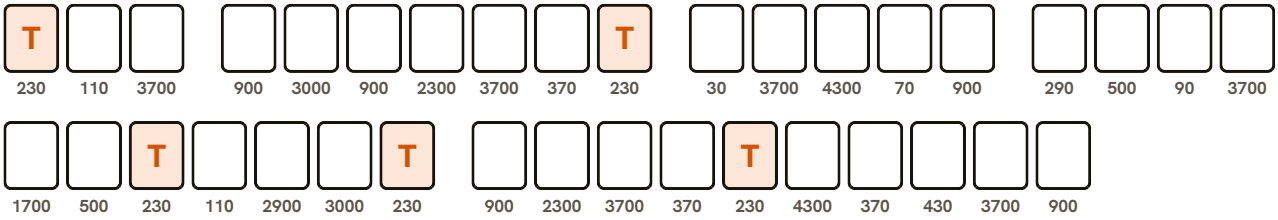
1/4 of 136 = ☐ → V

Scratch space:

CLUE 2 Rounding

The librarian's magic catalog scanner only shows rounded numbers for ink energy levels.

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



Round 231 to the nearest ten ☐ → T

Round 2,869 to the nearest hundred ☐ → O

Round 287 to the nearest ten ☐ → F

Round 367 to the nearest ten ☐ → C

Round 90 to the nearest ten ☐ → N

Round 114 to the nearest ten ☐ → H

Round 1,724 to the nearest hundred ☐ → W

Round 508 to the nearest hundred ☐ → I

Round 4,276 to the nearest hundred ☐ → A

Round 72 to the nearest ten ☐ → D

Round 853 to the nearest hundred ☐ → S

Round 2,530 to the nearest thousand ☐ → U

Round 3,735 to the nearest hundred ☐ → E

Round 2,327 to the nearest hundred ☐ → P

Round 433 to the nearest ten ☐ → L

Round 29 to the nearest ten ☐ → R

Scratch space:

CLUE 3 Addition

> The detective added up all the returned book stacks to discover a witness note.

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



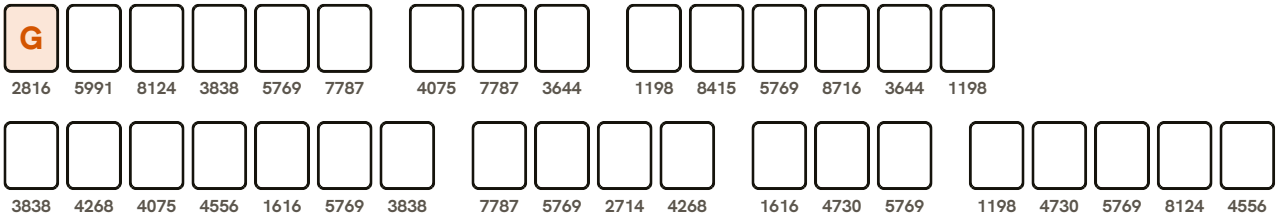
3542 + 6066 = ☐ → B	1769 + 1959 = ☐ → L	4900 + 2753 = ☐ → P
4383 + 2083 = ☐ → G	1176 + 1313 = ☐ → R	2801 + 6274 = ☐ → F
1510 + 1714 = ☐ → E	3707 + 2219 = ☐ → O	2995 + 5884 = ☐ → K
2308 + 4588 = ☐ → N	4380 + 3896 = ☐ → T	5993 + 3197 = ☐ → H
2480 + 2694 = ☐ → D	3265 + 2264 = ☐ → I	2513 + 1152 = ☐ → S

Scratch space:

CLUE 4 Subtraction

By subtracting the missing story pages from the total pile, a faint clue appeared on the desk.

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



5999 - 3183 = ☐ → G

11588 - 3464 = ☐ → L

6160 - 2516 = ☐ → K

12188 - 3472 = ☐ → C

1980 - 782 = ☐ → S

10584 - 4593 = ☐ → O

8551 - 764 = ☐ → N

5541 - 1466 = ☐ → I

11578 - 3163 = ☐ → P

7436 - 2706 = ☐ → H

6432 - 2594 = ☐ → D

6305 - 4689 = ☐ → T

3676 - 962 = ☐ → A

8035 - 2266 = ☐ → E

5203 - 935 = ☐ → R

8427 - 3871 = ☐ → F

Scratch space:

CLUE 5 Fractions of a number - the last clue

The detective solved a puzzle involving a fraction of the rare spellbooks 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:

2/10 of 20 = ☐	1/3 of 36 = ☐	2/8 of 12 = ☐	4/8 of 2 = ☐
1/8 of 16 = ☐	7/10 of 10 = ☐	1/4 of 32 = ☐	1/10 of 90 = ☐
1/8 of 88 = ☐	5/10 of 10 = ☐	2/3 of 15 = ☐	

Step 2 - cross out the sentence with each answer:

1. The villain spilled dark magic ink across the floor, then tied the corner with a bright golden tassel.
2. The villain vanished into the pages of a thick storybook, then tied the corner with a bright golden tassel.
3. The villain hid behind giant floating paper pages, then strapped the cover using a leather strap.
4. The villain hid behind giant floating paper pages, then marked the page with a silky ribbon bookmark.
5. The villain folded a map into a tiny paper bird, then clamped the chapter shut with a metal clip.
6. The villain whispered magic words from the ancient tome, then tied the corner with a bright golden tassel.
7. The villain folded a map into a tiny paper bird, then tied the corner with a bright golden tassel.
8. The villain folded a map into a tiny paper bird, then marked the page with a silky ribbon bookmark.
9. The villain hid behind giant floating paper pages, then tucked a pressed flower between the pages.
10. The villain whispered magic words from the ancient tome, then tucked a pressed flower between the pages.
11. The villain hid behind giant floating paper pages, then tied the corner with a bright golden tassel.
12. The villain vanished into the pages of a thick storybook, then strapped the cover using a leather strap.

TEACHER / PARENT

Answer Key

The Case of the Missing Golden Bookmark

Culprit: Gaby Guild

Whispering Words · Golden Tassel · Reads Without Spectacles · Gold Ink Streak · Bright Reading Lamps

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE A METAL CLIP"

6/10 of 55 = 33 (T) · 1/8 of 40 = 5 (D) · 1/2 of 4 = 2 (C) · 5/10 of 54 = 27 (H) · 2/6 of 51 = 17 (P) · 2/4 of 20 = 10 (O) · 3/6 of 52 = 26 (L) · 4/10 of 40 = 16 (M) · 1/2 of 44 = 22 (N) · 3/6 of 8 = 4 (U) · 4/8 of 64 = 32 (A) · 2/4 of 26 = 13 (E) · 1/6 of 186 = 31 (S) · 4/8 of 80 = 40 (I) · 1/4 of 136 = 34 (V)

Clue 2 (Rounding): "THE SUSPECT READS FINE WITHOUT SPECTACLES"

Round 231 to the nearest ten = 230 (T) · Round 2,869 to the nearest hundred = 2900 (O) · Round 287 to the nearest ten = 290 (F) · Round 367 to the nearest ten = 370 (C) · Round 90 to the nearest ten = 90 (N) · Round 114 to the nearest ten = 110 (H) · Round 1,724 to the nearest hundred = 1700 (W) · Round 508 to the nearest hundred = 500 (I) · Round 4,276 to the nearest hundred = 4300 (A) · Round 72 to the nearest ten = 70 (D) · Round 853 to the nearest hundred = 900 (S) · Round 2,530 to the nearest thousand = 3000 (U) · Round 3,735 to the nearest hundred = 3700 (E) · Round 2,327 to the nearest hundred = 2300 (P) · Round 433 to the nearest ten = 430 (L) · Round 29 to the nearest ten = 30 (R)

Clue 3 (Addition): "BRIGHT LIGHTS STOPPED THE INK THIEF"

3542 + 6066 = 9608 (B) · 1769 + 1959 = 3728 (L) · 4900 + 2753 = 7653 (P) · 4383 + 2083 = 6466 (G) · 1176 + 1313 = 2489 (R) · 2801 + 6274 = 9075 (F) · 1510 + 1714 = 3224 (E) · 3707 + 2219 = 5926 (O) · 2995 + 5884 = 8879 (K) · 2308 + 4588 = 6896 (N) · 4380 + 3896 = 8276 (T) · 5993 + 3197 = 9190 (H) · 2480 + 2694 = 5174 (D) · 3265 + 2264 = 5529 (I) · 2513 + 1152 = 3665 (S)

Clue 4 (Subtraction): "GOLDEN INK SPECKS DRIFTED NEAR THE SHELF"

5999 - 3183 = 2816 (G) · 11588 - 3464 = 8124 (L) · 6160 - 2516 = 3644 (K) · 12188 - 3472 = 8716 (C) · 1980 - 782 = 1198 (S) · 10584 - 4593 = 5991 (O) · 8551 - 764 = 7787 (N) · 5541 - 1466 = 4075 (I) · 11578 - 3163 = 8415 (P) · 7436 - 2706 = 4730 (H) · 6432 - 2594 = 3838 (D) · 6305 - 4689 = 1616 (T) · 3676 - 962 = 2714 (A) · 8035 - 2266 = 5769 (E) · 5203 - 935 = 4268 (R) · 8427 - 3871 = 4556 (F)

Clue 5 (Fractions of a number): surviving statement is box 6 → Gaby Guild

2/10 of 20 = 4 · 1/3 of 36 = 12 · 2/8 of 12 = 3 · 4/8 of 2 = 1 · 1/8 of 16 = 2 · 7/10 of 10 = 7 · 1/4 of 32 = 8 · 1/10 of 90 = 9 · 1/8 of 88 = 11 · 5/10 of 10 = 5 · 2/3 of 15 = 10