



The Case of the Missing Golden Tee

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding · Reading level grades 3-4

Detective: _____ Date: _____

The Golden Tee, a priceless trophy and bookmark, has been stolen from the library's trophy case! The suspect escaped onto the green. We need your golf and reading skills to solve this case.

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 The Fairway Phantom is _____

Possible suspects

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

NAME	SIGNATURE SHOT	READING GEAR	GOLF STANCE	VISOR COLOR	DISTRACTION
Beatrix Potter	Bunker Blast	Glow Bookmark	Right Handed Stance	Blue Visor	Squeaky Book Cart
Charles Dickens	Flop Shot	Glow Bookmark	Right Handed Stance	Blue Visor	Squeaky Book Cart
Arnold Palmer	Flop Shot	Book Clip Light	Left Handed Stance	Blue Visor	Squeaky Book Cart
Sam Snead	Trick Putt	Page Holder Ring	Right Handed Stance	Green Visor	Squeaky Book Cart
Ben Hogan	Power Drive	Page Holder Ring	Right Handed Stance	Blue Visor	Noisy Popcorn
Mark Twain	Chip Shot	Page Holder Ring	Right Handed Stance	Green Visor	Noisy Popcorn
Tiger Woods	Bunker Blast	Page Holder Ring	Right Handed Stance	Green Visor	Squeaky Book Cart
Rory McIlroy	Flop Shot	Magnifying Lens	Left Handed Stance	Blue Visor	Rustling Pages
Judy Blume	Trick Putt	Glow Bookmark	Left Handed Stance	Red Visor	Noisy Popcorn
Jack Nicklaus	Trick Putt	Magnifying Lens	Right Handed Stance	Blue Visor	Noisy Popcorn
Beverly Cleary	Flop Shot	Glow Bookmark	Left Handed Stance	Blue Visor	Noisy Popcorn
Nelly Korda	Chip Shot	Audiobook Headset	Right Handed Stance	Green Visor	Rustling Pages
Emily Bronte	Flop Shot	Page Holder Ring	Left Handed Stance	Blue Visor	Noisy Popcorn
Bobby Jones	Trick Putt	Glow Bookmark	Right Handed Stance	Red Visor	Noisy Popcorn
Brooke Henderson	Power Drive	Book Clip Light	Right Handed Stance	Blue Visor	Noisy Popcorn
Louisa Alcott	Trick Putt	Magnifying Lens	Right Handed Stance	Green Visor	Noisy Popcorn
Jane Austen	Chip Shot	Page Holder Ring	Right Handed Stance	Blue Visor	Noisy Popcorn
Jordan Spieth	Bunker Blast	Magnifying Lens	Left Handed Stance	Blue Visor	Noisy Popcorn
Lexi Thompson	Flop Shot	Magnifying Lens	Right Handed Stance	Blue Visor	Noisy Popcorn
Lewis Carroll	Bunker Blast	Glow Bookmark	Right Handed Stance	Red Visor	Noisy Popcorn
Rickie Fowler	Trick Putt	Glow Bookmark	Right Handed Stance	Green Visor	Rustling Pages

CLUE 1

Fractions of a number

To find the first clue, we need to count the golf balls left in the practice bucket. Only a fraction of them have the library's official stamp.

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

T																T
32	27	16	39	33	40	40	5	33	23	8	24	16	13	23	24	32
																T
19	13	16	5	28	24	24	2	20	40	33	30	40	33	17	27	32

5/10 of 64 = → T	5/8 of 64 = → L	2/6 of 90 = → P
2/5 of 70 = → B	1/6 of 162 = → H	1/10 of 50 = → A
2/4 of 16 = → D	3/6 of 48 = → O	3/5 of 65 = → V
4/6 of 30 = → C	1/6 of 12 = → K	1/3 of 69 = → N
2/4 of 26 = → S	2/3 of 24 = → E	3/6 of 38 = → U
1/6 of 198 = → I	2/4 of 34 = → G	

Scratch space:

CLUE 2 Order of operations

Next, we find a score card covered in strange symbols. We must solve the operations in the exact right order to unlock the locker room locker.

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

Two rows of three dice are shown. The top row has five dice with the following values on opposite faces: (52, 30, 72), (10, 36, 76), (47, 52, 36), (25, 47, 50), and (52, 30, 72). The bottom row has six dice with the following values: (7, 36, 46), (30, 52, 25), (36, 10, 72), (47, 61, 52), (30, 72, 22), and (6, 42, 42). The 'T' on the 52 face in the first row and the 52 face in the second row are highlighted.

$$16 + 4 \times 9 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$9 \times 5 - 20 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2 + 2 \times 2 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$5 \times 5 - 3 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

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

$$2 + 7 \times 4 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$12 \times 6 - 26 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$6 \times 10^{-13} = \boxed{} \rightarrow \mathbf{0}$$

$$7 \times 5 - 28 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$26 + 2 \times 5 = \boxed{} \rightarrow \boxed{}$$

$$32 + 3 \times 6 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$49 + 6 \times 2 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$18 + 3 \times 8 = \boxed{} \rightarrow \boxed{\text{L}}$$

$9 \times 10 - 18 = \boxed{} \rightarrow \boxed{\text{E}}$

$$52 + 6 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{v}}$$

Scratch space:

Multiplication facts (1-12)

The suspect left behind rows of book stacks on the putting green. If we multiply the rows by the books in each stack, we will find the secret code.

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

16	25	20	48
121	20	44	20
6	2	81	44
20	64	33	48

$$2 \times 8 = \boxed{} \rightarrow \boxed{\text{T}}$$

$10 \times 7 = \boxed{} \rightarrow \boxed{\text{N}}$

$$11 \times 4 = \boxed{} \rightarrow \boxed{\text{R}}$$

$11 \times 3 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$7 \times 3 = \square \rightarrow \boxed{\text{L}}$

$2 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{E}}$

$$9 \times 8 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$6 \times 2 = \boxed{} \rightarrow \boxed{0}$$

$12 \times 4 = \boxed{} \rightarrow \boxed{\text{Y}}$

$8 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$7 \times 4 = \square \rightarrow \boxed{\mathbf{P}}$

$11 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$3 \times 2 = \square \rightarrow \mathbf{S}$

$5 \times 5 =$ $\rightarrow$ **H**

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

$9 \times 9 = \square \rightarrow \mathbf{A}$

Scratch space:

CLUE 4 Rounding

The laser rangefinder on the golf cart is slightly broken. It only shows distances rounded to the nearest ten yards, but that is enough to track the path.

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

W																	
9000	4300	2900	500	1700	200	170	5000	1300	70	1700	4300	3000	230	370	4300	5000	170

2900	370	500	7000	5000	130	500	70	2900	2300	290	1100	500	370

Round 9,374 to the nearest thousand → **W**

Round 1,092 to the nearest hundred → **S**

Round 134 to the nearest ten → **G**

Round 2,804 to the nearest thousand → **T**

Round 68 to the nearest ten → **L**

Round 1,661 to the nearest hundred → **U**

Round 5,334 to the nearest thousand → **A**

Round 2,907 to the nearest hundred → **F**

Round 368 to the nearest ten → **R**

Round 4,336 to the nearest hundred → **E**

Round 1,345 to the nearest hundred → **B**

Round 227 to the nearest ten → **H**

Round 2,333 to the nearest hundred → **V**

Round 290 to the nearest ten → **I**

Round 6,779 to the nearest thousand → **M**

Round 196 to the nearest hundred → **N**

Round 171 to the nearest ten → **D**

Round 520 to the nearest hundred → **O**

Scratch space:

CLUE 5**Fractions of a number - the last clue**

Finally, we inspect a shelf of mystery novels. A fraction of the books are missing their bookmarks, pointing us to the villain's final hiding spot.

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:

$1/4 \text{ of } 40 = \boxed{}$

$1/10 \text{ of } 70 = \boxed{}$

$2/8 \text{ of } 44 = \boxed{}$

$5/6 \text{ of } 6 = \boxed{}$

$3/6 \text{ of } 2 = \boxed{}$

$3/6 \text{ of } 12 = \boxed{}$

$2/8 \text{ of } 8 = \boxed{}$

$4/8 \text{ of } 24 = \boxed{}$

$2/6 \text{ of } 9 = \boxed{}$

$1/8 \text{ of } 72 = \boxed{}$

$2/6 \text{ of } 24 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasts a ball out of the courtyard sand bunker, then marks their page with a glow bookmark.
2. The villain blasts a ball out of the courtyard sand bunker, then slides on a page holder ring to turn pages.
3. The villain hits a high flop shot over the library wall, then switches on a book clip light to read.
4. The villain lofts a delicate chip shot through the window, then slides on a page holder ring to turn pages.
5. The villain blasts a ball out of the courtyard sand bunker, then switches on a book clip light to read.
6. The villain launches a power drive down the main hallway, then listens to a clue on an audiobook headset.
7. The villain hits a high flop shot over the library wall, then peers through a magnifying lens at the map.
8. The villain sinks a trick putt into the return slot, then switches on a book clip light to read.
9. The villain lofts a delicate chip shot through the window, then peers through a magnifying lens at the map.
10. The villain launches a power drive down the main hallway, then slides on a page holder ring to turn pages.
11. The villain sinks a trick putt into the return slot, then peers through a magnifying lens at the map.
12. The villain sinks a trick putt into the return slot, then listens to a clue on an audiobook headset.

Answer Key

The Case of the Missing Golden Tee

Culprit: Jane Austen

Chip Shot · Page Holder Ring · Right Handed Stance · Blue Visor · Noisy Popcorn

Trail: Start 21 → Clue 1 19 → Clue 2 14 → Clue 3 8 → Clue 4 4 → Clue 5 1

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

$5/10$ of 64 = 32 (T) · $5/8$ of 64 = 40 (L) · $2/6$ of 90 = 30 (P) · $2/5$ of 70 = 28 (B) · $1/6$ of 162 = 27 (H) · $1/10$ of 50 = 5 (A) · $2/4$ of 16 = 8 (D) · $3/6$ of 48 = 24 (O) · $3/5$ of 65 = 39 (V) · $4/6$ of 30 = 20 (C) · $1/6$ of 12 = 2 (K) · $1/3$ of 69 = 23 (N) · $2/4$ of 26 = 13 (S) · $2/3$ of 24 = 16 (E) · $3/6$ of 38 = 19 (U) · $1/6$ of 198 = 33 (I) · $2/4$ of 34 = 17 (G)

Clue 2 (Order of operations): "THE DIVOT IS ON THE RIGHT SIDE OF THE BALL"

$16 + 4 \times 9 = 52$ (T) · $9 \times 5 - 20 = 25$ (S) · $2 + 2 \times 2 = 6$ (A) · $5 \times 5 - 3 = 22$ (B) · $2 + 4 \times 2 = 10$ (D) · $2 + 7 \times 4 = 30$ (H) · $12 \times 6 - 26 = 46$ (G) · $6 \times 10 - 13 = 47$ (O) · $7 \times 5 - 28 = 7$ (R) · $26 + 2 \times 5 = 36$ (I) · $32 + 3 \times 6 = 50$ (N) · $49 + 6 \times 2 = 61$ (F) · $18 + 3 \times 8 = 42$ (L) · $9 \times 10 - 18 = 72$ (E) · $52 + 6 \times 4 = 76$ (V)

Clue 3 (Multiplication facts (1-12)): "THEY WERE SCARED BY LOUD POPCORN CRUNCHES"

$2 \times 8 = 16$ (T) · $10 \times 7 = 70$ (N) · $11 \times 4 = 44$ (R) · $11 \times 3 = 33$ (B) · $7 \times 3 = 21$ (L) · $2 \times 10 = 20$ (E) · $9 \times 8 = 72$ (U) · $6 \times 2 = 12$ (O) · $12 \times 4 = 48$ (Y) · $8 \times 8 = 64$ (D) · $7 \times 4 = 28$ (P) · $11 \times 11 = 121$ (W) · $3 \times 2 = 6$ (S) · $5 \times 5 = 25$ (H) · $2 \times 1 = 2$ (C) · $9 \times 9 = 81$ (A)

Clue 4 (Rounding): "WE FOUND A BLUE THREAD FROM A GOLF VISOR"

Round 9,374 to the nearest thousand = 9000 (W) · Round 1,092 to the nearest hundred = 1100 (S) · Round 134 to the nearest ten = 130 (G) · Round 2,804 to the nearest thousand = 3000 (T) · Round 68 to the nearest ten = 70 (L) · Round 1,661 to the nearest hundred = 1700 (U) · Round 5,334 to the nearest thousand = 5000 (A) · Round 2,907 to the nearest hundred = 2900 (F) · Round 368 to the nearest ten = 370 (R) · Round 4,336 to the nearest hundred = 4300 (E) · Round 1,345 to the nearest hundred = 1300 (B) · Round 227 to the nearest ten = 230 (H) · Round 2,333 to the nearest hundred = 2300 (V) · Round 290 to the nearest ten = 290 (I) · Round 6,779 to the nearest thousand = 7000 (M) · Round 196 to the nearest hundred = 200 (N) · Round 171 to the nearest ten = 170 (D) · Round 520 to the nearest hundred = 500 (O)

Clue 5 (Fractions of a number): surviving statement is box 4 → Jane Austen

$1/4$ of 40 = 10 · $1/10$ of 70 = 7 · $2/8$ of 44 = 11 · $5/6$ of 6 = 5 · $3/6$ of 2 = 1 · $3/6$ of 12 = 6 · $2/8$ of 8 = 2 · $4/8$ of 24 = 12 · $2/6$ of 9 = 3 · $1/8$ of 72 = 9 · $2/6$ of 24 = 8