



The Golden Cookie Mystery

Grade 3 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 1-2

Detective: _____ Date: _____

Oh no! The Golden Cookie is gone! It is the best cookie in the whole bakery. Head Baker Ben needs our help to find who took it before the big bake sale!

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 Cookie Thief is _____

Possible suspects

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

NAME	COOKIE POWER	TOPPING POWER	MIXING HAND	CRUMB COLOR	COOKIE WEAKNESS
Chef Pierre	Choco-Chunky	Caramel Drizzle	Right-Handed	Brown Crumbs	Milk Splashes
Ruth Wakefield	Peanut-Butter-Punch	Marshmallow Melt	Right-Handed	Red Crumbs	Milk Splashes
Billy Biscotti	Fudge-Swirl	Minty Mist	Right-Handed	Red Crumbs	Warm Ovens
Baker Bob	Choco-Chunky	Caramel Drizzle	Right-Handed	Yellow Crumbs	Milk Splashes
Duncan Hines	Sugar-Sparkle	Sprinkle Blast	Right-Handed	Brown Crumbs	Cookie Jars
Miss Madeleine	Peanut-Butter-Punch	Sprinkle Blast	Right-Handed	Yellow Crumbs	Cookie Jars
Cookie Monster	Fudge-Swirl	Marshmallow Melt	Left-Handed	Red Crumbs	Warm Ovens
Duke Snickerdoodle	Fudge-Swirl	Caramel Drizzle	Left-Handed	Brown Crumbs	Warm Ovens
Betty Crocker	Fudge-Swirl	Sprinkle Blast	Left-Handed	Yellow Crumbs	Cookie Jars
Sally Sugar	Oatmeal-Oomph	Cherry Glow	Right-Handed	Brown Crumbs	Cookie Jars
Sir Crumbs	Oatmeal-Oomph	Marshmallow Melt	Left-Handed	Yellow Crumbs	Cookie Jars
Wally Amos	Peanut-Butter-Punch	Minty Mist	Right-Handed	Red Crumbs	Warm Ovens
Lady Macaron	Peanut-Butter-Punch	Minty Mist	Right-Handed	Red Crumbs	Milk Splashes
Sammy Shortbread	Oatmeal-Oomph	Cherry Glow	Left-Handed	Yellow Crumbs	Warm Ovens
Toby Tuile	Oatmeal-Oomph	Sprinkle Blast	Left-Handed	Red Crumbs	Milk Splashes
Otis Spunkmeyer	Fudge-Swirl	Cherry Glow	Right-Handed	Brown Crumbs	Cookie Jars
Mac Macadamia	Choco-Chunky	Sprinkle Blast	Right-Handed	Red Crumbs	Milk Splashes
Princess Pastry	Oatmeal-Oomph	Marshmallow Melt	Left-Handed	Red Crumbs	Milk Splashes
Baron Biscuit	Oatmeal-Oomph	Minty Mist	Right-Handed	Red Crumbs	Milk Splashes
Penny Palmier	Choco-Chunky	Caramel Drizzle	Right-Handed	Red Crumbs	Milk Splashes
Gaby Ginger	Oatmeal-Oomph	Caramel Drizzle	Left-Handed	Yellow Crumbs	Milk Splashes

CLUE 1 Rounding

We checked the big flour scale. The scale only shows rounded numbers. Round the numbers to find the first clue!

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

T			T											T			
70	300	2000	70	300	20	2000	3000	6000	700	2000	600	800	700	70	5000	600	2000
600	400	900	20	800	4000	50	2000	80	50	200	600	70					

Round 73 to the nearest ten → **T**

Round 1,912 to the nearest thousand → **E**

Round 818 to the nearest hundred → **N**

Round 919 to the nearest hundred → **R**

Round 5,187 to the nearest thousand → **U**

Round 707 to the nearest hundred → **O**

Round 309 to the nearest hundred → **H**

Round 80 to the nearest ten → **B**

Round 361 to the nearest hundred → **P**

Round 22 to the nearest ten → **I**

Round 612 to the nearest hundred → **S**

Round 4,135 to the nearest thousand → **K**

Round 49 to the nearest ten → **L**

Round 3,092 to the nearest thousand → **F**

Round 6,291 to the nearest thousand → **D**

Round 153 to the nearest hundred → **A**

Scratch space:

CLUE 2 **Addition**

We found a list of stolen chocolate chips. Let us add them all up to see how many are gone and get a new clue!

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

T 740	579	652	T 740	579	823	652	859	318	T 740	823	808	318	542	823	T 740	579
T 740	579	652	808	823	922	T 740	579	579	252	781	682					

$398 + 342 = \square \rightarrow \text{T}$

$383 + 196 = \square \rightarrow \text{H}$

$362 + 320 = \square \rightarrow \text{D}$

$169 + 83 = \square \rightarrow \text{A}$

$283 + 639 = \square \rightarrow \text{G}$

$346 + 196 = \square \rightarrow \text{W}$

$463 + 396 = \square \rightarrow \text{F}$

$570 + 253 = \square \rightarrow \text{I}$

$369 + 412 = \square \rightarrow \text{N}$

$326 + 482 = \square \rightarrow \text{R}$

$423 + 229 = \square \rightarrow \text{E}$

$214 + 104 = \square \rightarrow \text{S}$

Scratch space:

CLUE 3
Subtraction

The thief ate some cookies from the jar. Subtract the left-over cookies to find out how many the thief took!

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

T			T														
633	436	883	633	436	332	883	636	332	561	561	335	232	528	883	109	606	636

370	332	391	418	561	775	391	232	561	436	883	561	

$956 - 323 = \square \rightarrow \text{[T]}$

$486 - 68 = \square \rightarrow \text{[K]}$

$794 - 358 = \square \rightarrow \text{[H]}$

$795 - 20 = \square \rightarrow \text{[P]}$

$377 - 145 = \square \rightarrow \text{[A]}$

$714 - 323 = \square \rightarrow \text{[L]}$

$613 - 85 = \square \rightarrow \text{[R]}$

$680 - 119 = \square \rightarrow \text{[S]}$

$599 - 229 = \square \rightarrow \text{[M]}$

$868 - 232 = \square \rightarrow \text{[F]}$

$1222 - 339 = \square \rightarrow \text{[E]}$

$649 - 43 = \square \rightarrow \text{[O]}$

$445 - 113 = \square \rightarrow \text{[I]}$

$547 - 212 = \square \rightarrow \text{[C]}$

$246 - 137 = \square \rightarrow \text{[D]}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

We see cookie trays with rows of cookies. Multiply the rows to find the total cookies and unlock the clue!

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

R				R							R						
12	49	72	110	12	100	33	45	60	28	49	12	49	4	21	100	16	72

8	44	44	84	49	60	110	49	16	49

$2 \times 6 = \square \rightarrow \boxed{\text{R}}$

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

$2 \times 8 = \square \rightarrow \boxed{\text{N}}$

$10 \times 10 = \square \rightarrow \boxed{\text{U}}$

$8 \times 1 = \square \rightarrow \boxed{\text{A}}$

$9 \times 5 = \square \rightarrow \boxed{\text{B}}$

$7 \times 4 = \square \rightarrow \boxed{\text{W}}$

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

$6 \times 10 = \square \rightarrow \boxed{\text{S}}$

$12 \times 7 = \square \rightarrow \boxed{\text{H}}$

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

$3 \times 11 = \square \rightarrow \boxed{\text{M}}$

$9 \times 8 = \square \rightarrow \boxed{\text{D}}$

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

$4 \times 1 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

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

We want to share the cupcakes evenly among the bakers. Divide them up to get the final clue about the thief!

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:

$60 \div 12 = \boxed{}$

$36 \div 12 = \boxed{}$

$16 \div 4 = \boxed{}$

$121 \div 11 = \boxed{}$

$42 \div 7 = \boxed{}$

$48 \div 6 = \boxed{}$

$12 \div 12 = \boxed{}$

$4 \div 2 = \boxed{}$

$7 \div 1 = \boxed{}$

$108 \div 12 = \boxed{}$

$24 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blinds the guards with sugar sparkles, then distracts the dogs with sprinkle blast.
2. The villain creates a sticky fudge maze, then makes the floor slick with caramel drizzle.
3. The villain throws heavy chocolate chunks, then makes the floor slick with caramel drizzle.
4. The villain bashes through doors with oatmeal oomph, then freezes the room with minty mist.
5. The villain blocks the path with peanut butter, then freezes the room with minty mist.
6. The villain blinds the guards with sugar sparkles, then freezes the room with minty mist.
7. The villain blocks the path with peanut butter, then distracts the dogs with sprinkle blast.
8. The villain bashes through doors with oatmeal oomph, then distracts the dogs with sprinkle blast.
9. The villain blinds the guards with sugar sparkles, then makes the floor slick with caramel drizzle.
10. The villain blocks the path with peanut butter, then sticks the key in marshmallow melt.
11. The villain bashes through doors with oatmeal oomph, then lights the dark with cherry glow.
12. The villain blocks the path with peanut butter, then lights the dark with cherry glow.

Answer Key

The Golden Cookie Mystery

Culprit: Ruth Wakefield

Peanut-Butter-Punch · Marshmallow Melt · Right-Handed · Red Crumbs · Milk Splashes

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT USE SPRINKLE BLAST"

Round 73 to the nearest ten = 70 (T) · Round 1,912 to the nearest thousand = 2000 (E) · Round 818 to the nearest hundred = 800 (N) · Round 919 to the nearest hundred = 900 (R) · Round 5,187 to the nearest thousand = 5000 (U) · Round 707 to the nearest hundred = 700 (O) · Round 309 to the nearest hundred = 300 (H) · Round 80 to the nearest ten = 80 (B) · Round 361 to the nearest hundred = 400 (P) · Round 22 to the nearest ten = 20 (I) · Round 612 to the nearest hundred = 600 (S) · Round 4,135 to the nearest thousand = 4000 (K) · Round 49 to the nearest ten = 50 (L) · Round 3,092 to the nearest thousand = 3000 (F) · Round 6,291 to the nearest thousand = 6000 (D) · Round 153 to the nearest hundred = 200 (A)

Clue 2 (Addition): "THE THIEF STIRS WITH THE RIGHT HAND"

$398 + 342 = 740$ (T) · $383 + 196 = 579$ (H) · $362 + 320 = 682$ (D) · $169 + 83 = 252$ (A) · $283 + 639 = 922$ (G) · $346 + 196 = 542$ (W) · $463 + 396 = 859$ (F) · $570 + 253 = 823$ (I) · $369 + 412 = 781$ (N) · $326 + 482 = 808$ (R) · $423 + 229 = 652$ (E) · $214 + 104 = 318$ (S)

Clue 3 (Subtraction): "THE THIEF IS SCARED OF MILK SPLASHES"

$956 - 323 = 633$ (T) · $486 - 68 = 418$ (K) · $794 - 358 = 436$ (H) · $795 - 20 = 775$ (P) · $377 - 145 = 232$ (A) · $714 - 323 = 391$ (L) · $613 - 85 = 528$ (R) · $680 - 119 = 561$ (S) · $599 - 229 = 370$ (M) · $868 - 232 = 636$ (F) · $1222 - 339 = 883$ (E) · $649 - 43 = 606$ (O) · $445 - 113 = 332$ (I) · $547 - 212 = 335$ (C) · $246 - 137 = 109$ (D)

Clue 4 (Multiplication facts (1-12)): "RED CRUMBS WERE FOUND AT THE SCENE"

$2 \times 6 = 12$ (R) · $11 \times 4 = 44$ (T) · $2 \times 8 = 16$ (N) · $10 \times 10 = 100$ (U) · $8 \times 1 = 8$ (A) · $9 \times 5 = 45$ (B) · $7 \times 4 = 28$ (W) · $3 \times 7 = 21$ (O) · $6 \times 10 = 60$ (S) · $12 \times 7 = 84$ (H) · $7 \times 7 = 49$ (E) · $3 \times 11 = 33$ (M) · $9 \times 8 = 72$ (D) · $10 \times 11 = 110$ (C) · $4 \times 1 = 4$ (F)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Ruth Wakefield

$60 \div 12 = 5$ · $36 \div 12 = 3$ · $16 \div 4 = 4$ · $121 \div 11 = 11$ · $42 \div 7 = 6$ · $48 \div 6 = 8$ · $12 \div 12 = 1$ · $4 \div 2 = 2$ · $7 \div 1 = 7$ · $108 \div 12 = 9$ · $24 \div 2 = 12$