



The Mystery of the Missing Shire Map

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

The legendary Golden Map of Middle-earth has vanished right from under the Party Tree! Mayor Flurbo needs your help. Look for clues, solve the math puzzles, and find out which traveler is the sneaky goblin in disguise before they escape to Mount Doom!

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 sneaky goblin is _____

Possible suspects

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

NAME	MAGIC ABILITY	TRAVEL GEAR	DOMINANT HAND	HAIR EVIDENCE	SUSPECTED WEAKNESS
Rosie Cotton	Super Jump	Mithril Vest	Left Handed	Long Silver Hair	Hates Water Splash
Arwen Evenstar	Light Flashing	Elven Cloak	Left Handed	Curly Brown Hair	Loves Lembas Bread
Gandalf Gray	Light Flashing	Mithril Vest	Right Handed	Braided Beard Hair	Fears Bright Light
Eowyn Shield	Super Jump	Elven Cloak	Left Handed	Curly Brown Hair	Fears Bright Light
Theoden Rohan	Stone Throwing	Mithril Vest	Right Handed	Long Silver Hair	Fears Bright Light
Barliman Butter	Animal Speech	Elven Cloak	Left Handed	Braided Beard Hair	Fears Bright Light
Lotho Sackville	Light Flashing	Glowing Sword	Left Handed	Braided Beard Hair	Fears Bright Light
Elrond Halfelf	Super Jump	Mithril Vest	Right Handed	Braided Beard Hair	Loves Lembas Bread
Radagast Brown	Animal Speech	Rope of Lorien	Left Handed	Braided Beard Hair	Fears Bright Light
Faramir Ithilien	Light Flashing	Glowing Sword	Left Handed	Braided Beard Hair	Hates Water Splash
Gimli Glowhelmet	Animal Speech	Elven Cloak	Left Handed	Curly Brown Hair	Fears Bright Light
Legolas Greenleaf	Light Flashing	Wizard Staff	Right Handed	Braided Beard Hair	Fears Bright Light
Saruman White	Animal Speech	Glowing Sword	Right Handed	Long Silver Hair	Loves Lembas Bread
Merry Brandybuck	Stone Throwing	Mithril Vest	Left Handed	Curly Brown Hair	Hates Water Splash
Aragorn Ranger	Stone Throwing	Wizard Staff	Left Handed	Braided Beard Hair	Fears Bright Light
Boromir Gondor	Stone Throwing	Glowing Sword	Left Handed	Long Silver Hair	Fears Bright Light
Pippin Took	Stone Throwing	Mithril Vest	Right Handed	Long Silver Hair	Loves Lembas Bread
Frodo Underhill	Light Flashing	Glowing Sword	Left Handed	Braided Beard Hair	Loves Lembas Bread
Galadriel Lorien	Animal Speech	Wizard Staff	Left Handed	Long Silver Hair	Fears Bright Light
Thorin Oakshield	Animal Speech	Wizard Staff	Right Handed	Curly Brown Hair	Fears Bright Light
Lobelia Baggins	Stone Throwing	Mithril Vest	Left Handed	Braided Beard Hair	Fears Bright Light

CLUE 1 Rounding

We tracked the goblin's flight on a magic dwarven radar. The magic screen only shows numbers rounded to the nearest ten.

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

T																			
90	7000	2300	230	290	2300	2900	300	50	9000	200	20	5000	30	290	1300	200	2300	230	

		T										
290	200	90	430	230	2300	2900	2000	200	900	2300		

Round 93 to the nearest ten → **T**

Round 2,169 to the nearest thousand → **R**

Round 52 to the nearest ten → **Y**

Round 7,198 to the nearest thousand → **H**

Round 2,883 to the nearest hundred → **A**

Round 9,007 to the nearest thousand → **G**

Round 5,432 to the nearest thousand → **L**

Round 281 to the nearest hundred → **K**

Round 432 to the nearest ten → **U**

Round 226 to the nearest hundred → **O**

Round 2,281 to the nearest hundred → **E**

Round 290 to the nearest ten → **N**

Round 1,347 to the nearest hundred → **D**

Round 20 to the nearest ten → **B**

Round 899 to the nearest hundred → **P**

Round 30 to the nearest ten → **I**

Round 232 to the nearest ten → **S**

Scratch space:

CLUE 2 Addition

The hobbits gathered to count the stolen apple pies left on the road. Let us add up all the missing trays.

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

T										T										T		
3819	8558	6835	8831	4770	6835	3812	7510	5931	3819	8558	3930	6835	8352	5440	5159	3930	3819	6835	8831			

		T		T					T					
5440	3930	3819	8558	3819	8558	6835	3596	6835	8352	3819	8558	3812	4770	4845

$1562 + 2257 = \square \rightarrow \text{[T]}$

$3260 + 5092 = \square \rightarrow \text{[F]}$

$5927 + 2631 = \square \rightarrow \text{[H]}$

$2461 + 1135 = \square \rightarrow \text{[L]}$

$2225 + 1587 = \square \rightarrow \text{[A]}$

$4653 + 2182 = \square \rightarrow \text{[E]}$

$3429 + 2502 = \square \rightarrow \text{[Y]}$

$5785 + 3046 = \square \rightarrow \text{[S]}$

$2584 + 2575 = \square \rightarrow \text{[R]}$

$2293 + 1637 = \square \rightarrow \text{[I]}$

$4830 + 2680 = \square \rightarrow \text{[K]}$

$2643 + 2797 = \square \rightarrow \text{[W]}$

$2253 + 2592 = \square \rightarrow \text{[D]}$

$2662 + 2108 = \square \rightarrow \text{[N]}$

Scratch space:

CLUE 3

Subtraction

An elf noticed some silver arrows were missing from the armory. Subtract the remaining arrows from the starting pile.

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

T 2055	4194	2616	T 2055	4194	3760	2616	5564	2010	6619	3100	6619	8335	6619	5891	5564	2010	7106	1908
T 2055	4194	2616	2081	2010	3760	3433	4194	T 2055	4495	6619	3100	T 2055	2616	2010	3100			

$6188 - 4133 = \square \rightarrow \boxed{T}$

$8850 - 3286 = \square \rightarrow \boxed{F}$

$7331 - 3571 = \square \rightarrow \boxed{I}$

$7968 - 3473 = \square \rightarrow \boxed{L}$

$4304 - 1204 = \square \rightarrow \boxed{N}$

$8499 - 4305 = \square \rightarrow \boxed{H}$

$4015 - 582 = \square \rightarrow \boxed{G}$

$8443 - 108 = \square \rightarrow \boxed{W}$

$6223 - 332 = \square \rightarrow \boxed{Y}$

$3638 - 1730 = \square \rightarrow \boxed{M}$

$5930 - 3314 = \square \rightarrow \boxed{E}$

$11395 - 4289 = \square \rightarrow \boxed{O}$

$2788 - 707 = \square \rightarrow \boxed{B}$

$3090 - 1080 = \square \rightarrow \boxed{R}$

$11223 - 4604 = \square \rightarrow \boxed{A}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

We found rows of mysterious footprints in the muddy garden. Multiply the number of rows by the prints in each row.

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

A			A							A				A		
20	77	12	20	120	5	42	5	77	42	20	12	5	110	20	120	12

	A												A				
4	20	33	70	28	66	45	5	28	45	60	110	42	9	110	20	120	12

$4 \times 5 = \square \rightarrow \boxed{\text{A}}$

$3 \times 4 = \square \rightarrow \boxed{\text{R}}$

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

$6 \times 7 = \square \rightarrow \boxed{\text{E}}$

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

$9 \times 1 = \square \rightarrow \boxed{\text{C}}$

$7 \times 11 = \square \rightarrow \boxed{\text{B}}$

$1 \times 5 = \square \rightarrow \boxed{\text{D}}$

$5 \times 12 = \square \rightarrow \boxed{\text{T}}$

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

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

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

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

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

$11 \times 6 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

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

The rangers want to share their travel rations equally among the search teams. Divide the lembas bread loaves to find the share.

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:

$24 \div 6 = \boxed{}$

$88 \div 11 = \boxed{}$

$44 \div 4 = \boxed{}$

$50 \div 10 = \boxed{}$

$20 \div 2 = \boxed{}$

$90 \div 10 = \boxed{}$

$22 \div 11 = \boxed{}$

$30 \div 10 = \boxed{}$

$72 \div 6 = \boxed{}$

$12 \div 12 = \boxed{}$

$6 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain whispered quietly to a helper bird, then swung across the stream on a rope.
2. The villain threw heavy river stones, then swung across the stream on a rope.
3. The villain blinded the guards with a bright flash, then blocked a slingshot with a mithril vest.
4. The villain threw heavy river stones, then cast a small sparks spell with a wizard staff.
5. The villain turned invisible with a magic ring, then swung across the stream on a rope.
6. The villain turned invisible with a magic ring, then blocked a slingshot with a mithril vest.
7. The villain whispered quietly to a helper bird, then wrapped up in an elven cloak.
8. The villain blinded the guards with a bright flash, then lit the dark trail with a glowing sword.
9. The villain blinded the guards with a bright flash, then cast a small sparks spell with a wizard staff.
10. The villain whispered quietly to a helper bird, then lit the dark trail with a glowing sword.
11. The villain threw heavy river stones, then blocked a slingshot with a mithril vest.
12. The villain jumped over the high Shire wall, then swung across the stream on a rope.

Answer Key

The Mystery of the Missing Shire Map

Culprit: Barliman Butter

Animal Speech · Elven Cloak · Left Handed · Braided Beard Hair · Fears Bright Light

Trail: Start 21 → Clue 1 20 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SNEAKY GOBLIN DOES NOT USE A ROPE"

Round 93 to the nearest ten = 90 (T) · Round 2,169 to the nearest thousand = 2000 (R) · Round 52 to the nearest ten = 50 (Y) · Round 7,198 to the nearest thousand = 7000 (H) · Round 2,883 to the nearest hundred = 2900 (A) · Round 9,007 to the nearest thousand = 9000 (G) · Round 5,432 to the nearest thousand = 5000 (L) · Round 281 to the nearest hundred = 300 (K) · Round 432 to the nearest ten = 430 (U) · Round 226 to the nearest hundred = 200 (O) · Round 2,281 to the nearest hundred = 2300 (E) · Round 290 to the nearest ten = 290 (N) · Round 1,347 to the nearest hundred = 1300 (D) · Round 20 to the nearest ten = 20 (B) · Round 899 to the nearest hundred = 900 (P) · Round 30 to the nearest ten = 30 (I) · Round 232 to the nearest ten = 230 (S)

Clue 2 (Addition): "THE SNEAKY THIEF WRITES WITH THE LEFT HAND"

$1562 + 2257 = 3819$ (T) · $3260 + 5092 = 8352$ (F) · $5927 + 2631 = 8558$ (H) · $2461 + 1135 = 3596$ (L) · $2225 + 1587 = 3812$ (A) · $4653 + 2182 = 6835$ (E) · $3429 + 2502 = 5931$ (Y) · $5785 + 3046 = 8831$ (S) · $2584 + 2575 = 5159$ (R) · $2293 + 1637 = 3930$ (I) · $4830 + 2680 = 7510$ (K) · $2643 + 2797 = 5440$ (W) · $2253 + 2592 = 4845$ (D) · $2662 + 2108 = 4770$ (N)

Clue 3 (Subtraction): "THE THIEF RAN AWAY FROM THE BRIGHT LANTERN"

$6188 - 4133 = 2055$ (T) · $8850 - 3286 = 5564$ (F) · $7331 - 3571 = 3760$ (I) · $7968 - 3473 = 4495$ (L) · $4304 - 1204 = 3100$ (N) · $8499 - 4305 = 4194$ (H) · $4015 - 582 = 3433$ (G) · $8443 - 108 = 8335$ (W) · $6223 - 332 = 5891$ (Y) · $3638 - 1730 = 1908$ (M) · $5930 - 3314 = 2616$ (E) · $11395 - 4289 = 7106$ (O) · $2788 - 707 = 2081$ (B) · $3090 - 1080 = 2010$ (R) · $11223 - 4604 = 6619$ (A)

Clue 4 (Multiplication facts (1-12)): "A BRAIDED BEARD HAIR WAS FOUND ON THE CHAIR"

$4 \times 5 = 20$ (A) · $3 \times 4 = 12$ (R) · $4 \times 7 = 28$ (O) · $6 \times 7 = 42$ (E) · $10 \times 12 = 120$ (I) · $9 \times 1 = 9$ (C) · $7 \times 11 = 77$ (B) · $1 \times 5 = 5$ (D) · $5 \times 12 = 60$ (T) · $10 \times 7 = 70$ (F) · $9 \times 5 = 45$ (N) · $11 \times 10 = 110$ (H) · $1 \times 4 = 4$ (W) · $3 \times 11 = 33$ (S) · $11 \times 6 = 66$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Barliman Butter

$24 \div 6 = 4$ · $88 \div 11 = 8$ · $44 \div 4 = 11$ · $50 \div 10 = 5$ · $20 \div 2 = 10$ · $90 \div 10 = 9$ · $22 \div 11 = 2$ · $30 \div 10 = 3$ · $72 \div 6 = 12$ · $12 \div 12 = 1$ · $6 \div 1 = 6$