



The Whispering Pines Gate Mystery

Grade 6 math · Addition, Subtraction, Rounding, Multiplication, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone snuck into the whispering pines sanctuary and opened the main gates! The champion horses have wandered out into the misty valley. The Head Trainer needs your help to identify the Rogue Rider who pulled off this prank before the big parade starts.

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 Rider is _____

Possible suspects

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

NAME	RIDING STYLE	FAVORITE TREAT	STIRRUP BUCKLE	GROOMING STYLE	LASSO COLOR
Cisco	Show Jumping	Peppermint Crunch	Brass Clover Buckle	Cropped Mane	Neon Nylon Lasso
Shadowfax	Barrel Racing	Peppermint Crunch	Brass Clover Buckle	Cropped Mane	Golden Lasso
Phar Lap	Dressage Mastery	Molasses Oat	Silver Star Buckle	Loose Mane	Golden Lasso
Barbaro	Show Jumping	Crisp Carrot	Silver Star Buckle	Loose Mane	Golden Lasso
Secretariat	Barrel Racing	Sweet Apple	Brass Clover Buckle	Cropped Mane	Golden Lasso
Trigger	Show Jumping	Peppermint Crunch	Brass Clover Buckle	Cropped Mane	Braided Hemp Lasso
Flicka	Trick Vaulting	Sweet Apple	Brass Clover Buckle	Loose Mane	Golden Lasso
Eclipse	Barrel Racing	Sweet Apple	Silver Star Buckle	Cropped Mane	Braided Hemp Lasso
Man o War	Trick Vaulting	Peppermint Crunch	Brass Clover Buckle	Braided Mane	Golden Lasso
Socks	Dressage Mastery	Peppermint Crunch	Silver Star Buckle	Braided Mane	Golden Lasso
Champion	Show Jumping	Crisp Carrot	Brass Clover Buckle	Loose Mane	Neon Nylon Lasso
Silver	Show Jumping	Crisp Carrot	Brass Clover Buckle	Loose Mane	Golden Lasso
Rupert	Barrel Racing	Molasses Oat	Brass Clover Buckle	Loose Mane	Golden Lasso
Comanche	Barrel Racing	Peppermint Crunch	Brass Clover Buckle	Loose Mane	Golden Lasso
Red Rum	Show Jumping	Sweet Apple	Brass Clover Buckle	Loose Mane	Golden Lasso
Seabiscuit	Trail Blazing	Sugar Cube	Brass Clover Buckle	Loose Mane	Braided Hemp Lasso
Pegasus	Dressage Mastery	Sweet Apple	Silver Star Buckle	Loose Mane	Golden Lasso
Barnaby	Dressage Mastery	Sugar Cube	Brass Clover Buckle	Loose Mane	Neon Nylon Lasso
Bucephalus	Show Jumping	Crisp Carrot	Silver Star Buckle	Loose Mane	Braided Hemp Lasso
Bullseye	Dressage Mastery	Molasses Oat	Brass Clover Buckle	Braided Mane	Golden Lasso
Artax	Dressage Mastery	Peppermint Crunch	Silver Star Buckle	Braided Mane	Neon Nylon Lasso

CLUE 1 Addition

The stable hands count up the leftover saddles in the tack room. Adding the English and Western saddles together reveals a clue about the thief.

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

T																	
4380	6178	3115	8338	4119	2311	2311	9004	4119	9131	4213	4119	7938	2311	4119	5513	3115	7938

											T
7299	4060	2311	9004	7938	7938	3115	7938	4060	9004	4380	

$2577 + 1803 = \square \rightarrow \boxed{\text{T}}$	$3843 + 5161 = \square \rightarrow \boxed{\text{A}}$	$3434 + 2744 = \square \rightarrow \boxed{\text{H}}$
$1798 + 1317 = \square \rightarrow \boxed{\text{E}}$	$3758 + 4180 = \square \rightarrow \boxed{\text{S}}$	$3751 + 4587 = \square \rightarrow \boxed{\text{V}}$
$1540 + 2579 = \square \rightarrow \boxed{\text{I}}$	$3124 + 2389 = \square \rightarrow \boxed{\text{K}}$	$4054 + 3245 = \square \rightarrow \boxed{\text{M}}$
$751 + 1560 = \square \rightarrow \boxed{\text{L}}$	$3425 + 5706 = \square \rightarrow \boxed{\text{N}}$	$1954 + 2259 = \square \rightarrow \boxed{\text{D}}$
$2390 + 1670 = \square \rightarrow \boxed{\text{O}}$		

Scratch space:

CLUE 2 Subtraction

We check the feed bin levels to see how much grain was taken. Subtracting the spilled grain from the total amount gives us a key piece of evidence.

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

T																
4255	2124	6665	6588	4673	6588	2278	6665	2673	4255	4673	6588	6665	4624	4090		
2929	2495	4090	6588	6588	2673	3193	8089	5867	6665	2495	2929	4673	2673	1338	3193	6665

5908 - 1653 = → T	4447 - 357 = → A	6812 - 147 = → E
5699 - 3026 = → C	5920 - 3796 = → H	7133 - 4204 = → B
9010 - 4337 = → U	3244 - 1906 = → K	7203 - 2579 = → D
9727 - 1638 = → O	5804 - 3526 = → P	6706 - 4211 = → R
7666 - 4473 = → L	9534 - 3667 = → V	10497 - 3909 = → S

Scratch space:

CLUE 3 Rounding

The digital gate timer only shows rounded whole minutes. Rounding the gate lock telemetry time to the nearest ten reveals exactly when the suspect fled.

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

A								A										
30	1100	20	500	2000	4300	1700	500	30	3000	3000	20	3700	170	700	7000	7000	4300	2000

290	7000	3700	110	4300	170	20	1100

Round 27 to the nearest ten → **A**

Round 3,685 to the nearest hundred → **T**

Round 2,222 to the nearest thousand → **D**

Round 6,699 to the nearest thousand → **P**

Round 1,084 to the nearest hundred → **G**

Round 527 to the nearest hundred → **L**

Round 2,668 to the nearest thousand → **S**

Round 20 to the nearest ten → **O**

Round 107 to the nearest ten → **H**

Round 291 to the nearest ten → **U**

Round 174 to the nearest ten → **R**

Round 739 to the nearest hundred → **I**

Round 4,305 to the nearest hundred → **E**

Round 1,691 to the nearest hundred → **N**

Scratch space:

CLUE 4

Multiplication facts (1-12)

The horseshoes are stacked in neat rows on the wall. Multiplying the number of rows by the shoes in each row uncovers a hidden message.

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

L																			
2	24	24	28	12	25	56	15	12	45	56	21	11	28	22	12	11	12		

L									L					
2	12	1	54	24	15	54	45	12	2	56	54	60	45	

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

$11 \times 2 = \square \rightarrow \boxed{\text{W}}$

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

$5 \times 5 = \square \rightarrow \boxed{\text{M}}$

$3 \times 5 = \square \rightarrow \boxed{\text{N}}$

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

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

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

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

$1 \times 11 = \square \rightarrow \boxed{\text{R}}$

$9 \times 6 = \square \rightarrow \boxed{\text{T}}$

$8 \times 3 = \square \rightarrow \boxed{\text{O}}$

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

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

Scratch space:

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

The trail guide splits the grooming brushes equally among the student riders. Dividing the brush pile tells us which suspect left the arena.

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:

$2 \div 2 = \boxed{}$

$14 \div 2 = \boxed{}$

$30 \div 5 = \boxed{}$

$80 \div 8 = \boxed{}$

$96 \div 12 = \boxed{}$

$10 \div 2 = \boxed{}$

$60 \div 5 = \boxed{}$

$6 \div 2 = \boxed{}$

$14 \div 7 = \boxed{}$

$24 \div 6 = \boxed{}$

$72 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain weaves through the barrel course, then crunches a peppermint treat.
2. The villain leaps over the pasture fence, then snacking on a sweet oat bar.
3. The villain weaves through the barrel course, then bites into a juicy red apple.
4. The villain leaps over the pasture fence, then drops a tiny square sugar cube.
5. The villain stands on a galloping horse, then crunches a peppermint treat.
6. The villain leaps over the pasture fence, then bites into a juicy red apple.
7. The villain leaps over the pasture fence, then munching on a fresh orange carrot.
8. The villain follows the winding forest path, then snacking on a sweet oat bar.
9. The villain follows the winding forest path, then bites into a juicy red apple.
10. The villain leaps over the pasture fence, then crunches a peppermint treat.
11. The villain stands on a galloping horse, then bites into a juicy red apple.
12. The villain performs a flawless trot, then bites into a juicy red apple.

Answer Key

The Whispering Pines Gate Mystery

Culprit: Flicka

Trick Vaulting · Sweet Apple · Brass Clover Buckle · Loose Mane · Golden Lasso

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DISLIKES MOLASSES OAT"

$2577 + 1803 = 4380$ (T) · $3843 + 5161 = 9004$ (A) · $3434 + 2744 = 6178$ (H) · $1798 + 1317 = 3115$ (E) · $3758 + 4180 = 7938$ (S) · $3751 + 4587 = 8338$ (V) · $1540 + 2579 = 4119$ (I) · $3124 + 2389 = 5513$ (K) · $4054 + 3245 = 7299$ (M) · $751 + 1560 = 2311$ (L) · $3425 + 5706 = 9131$ (N) · $1954 + 2259 = 4213$ (D) · $2390 + 1670 = 4060$ (O)

Clue 2 (Subtraction): "THE SUSPECT USED A BRASS CLOVER BUCKLE"

$5908 - 1653 = 4255$ (T) · $4447 - 357 = 4090$ (A) · $6812 - 147 = 6665$ (E) · $5699 - 3026 = 2673$ (C) · $5920 - 3796 = 2124$ (H) · $7133 - 4204 = 2929$ (B) · $9010 - 4337 = 4673$ (U) · $3244 - 1906 = 1338$ (K) · $7203 - 2579 = 4624$ (D) · $9727 - 1638 = 8089$ (O) · $5804 - 3526 = 2278$ (P) · $6706 - 4211 = 2495$ (R) · $7666 - 4473 = 3193$ (L) · $9534 - 3667 = 5867$ (V) · $10497 - 3909 = 6588$ (S)

Clue 3 (Rounding): "A GOLDEN LASSO TRIPPED UP THE ROGUE"

Round 27 to the nearest ten = 30 (A) · Round 3,685 to the nearest hundred = 3700 (T) · Round 2,222 to the nearest thousand = 2000 (D) · Round 6,699 to the nearest thousand = 7000 (P) · Round 1,084 to the nearest hundred = 1100 (G) · Round 527 to the nearest hundred = 500 (L) · Round 2,668 to the nearest thousand = 3000 (S) · Round 20 to the nearest ten = 20 (O) · Round 107 to the nearest ten = 110 (H) · Round 291 to the nearest ten = 290 (U) · Round 174 to the nearest ten = 170 (R) · Round 739 to the nearest hundred = 700 (I) · Round 4,305 to the nearest hundred = 4300 (E) · Round 1,691 to the nearest hundred = 1700 (N)

Clue 4 (Multiplication facts (1-12)): "LOOSE MANE HAIRS WERE LEFT ON THE LATCH"

$2 \times 1 = 2$ (L) · $11 \times 2 = 22$ (W) · $6 \times 2 = 12$ (E) · $5 \times 5 = 25$ (M) · $3 \times 5 = 15$ (N) · $1 \times 1 = 1$ (F) · $10 \times 6 = 60$ (C) · $9 \times 5 = 45$ (H) · $7 \times 3 = 21$ (I) · $1 \times 11 = 11$ (R) · $9 \times 6 = 54$ (T) · $8 \times 3 = 24$ (O) · $8 \times 7 = 56$ (A) · $4 \times 7 = 28$ (S)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Flicka

$2 \div 2 = 1$ · $14 \div 2 = 7$ · $30 \div 5 = 6$ · $80 \div 8 = 10$ · $96 \div 12 = 8$ · $10 \div 2 = 5$ · $60 \div 5 = 12$ · $6 \div 2 = 3$ · $14 \div 7 = 2$ · $24 \div 6 = 4$ · $72 \div 8 = 9$