The Whispering Willows Trophy Mystery

Grade 2 math · Place value, Addition, Word problems, Subtraction, Missing addends · Reading level grades 1-2

Detective: _____ **Date:** _____

Someone snuck into Whispering Willows Stable and hid the golden championship trophy! Follow the clues around the barn to find out who did it.

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 Barn Mischief Maker is _____

Possible suspects

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

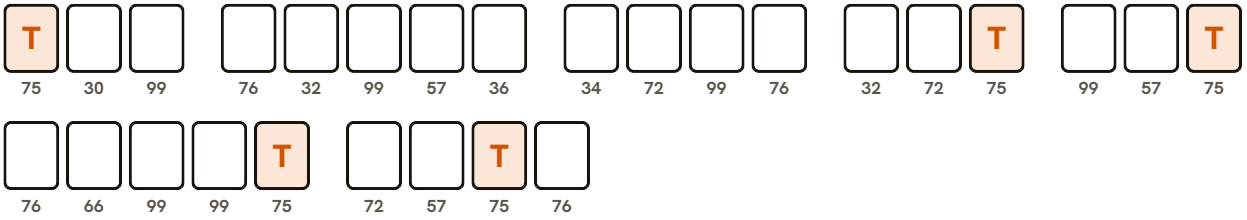
NAME	SPECIAL SKILL	FAVORITE TREAT	RIDING GLOVE	MANE RIBBON COLOR	SCARED OF
Iggy	Barrel Race	Crunchy Apple	Left Handed	Blue Ribbon	Flapping Flags
Quinn	Trail Ride	Juicy Carrot	Left Handed	Blue Ribbon	Flapping Flags
Bella	Barrel Race	Alfalfa Cube	Right Handed	Red Ribbon	Loud Whistles
Willa	Pony Trot	Sugar Cube	Left Handed	Blue Ribbon	Shiny Buckets
Penny	Jump Show	Juicy Carrot	Right Handed	Gold Ribbon	Shiny Buckets
Fiona	Pony Trot	Sweet Oat	Left Handed	Blue Ribbon	Flapping Flags
Milo	Dressage	Juicy Carrot	Right Handed	Blue Ribbon	Shiny Buckets
Kip	Jump Show	Sweet Oat	Right Handed	Blue Ribbon	Loud Whistles
Sammy	Barrel Race	Alfalfa Cube	Left Handed	Blue Ribbon	Loud Whistles
Barnaby	Dressage	Juicy Carrot	Left Handed	Blue Ribbon	Loud Whistles
Nora	Trail Ride	Sugar Cube	Left Handed	Gold Ribbon	Shiny Buckets
Elliot	Dressage	Sugar Cube	Left Handed	Blue Ribbon	Flapping Flags
Tillie	Trail Ride	Alfalfa Cube	Left Handed	Red Ribbon	Flapping Flags
Lulu	Jump Show	Sugar Cube	Right Handed	Gold Ribbon	Loud Whistles
Ziggy	Trail Ride	Sugar Cube	Left Handed	Blue Ribbon	Loud Whistles
Uma	Jump Show	Sugar Cube	Right Handed	Red Ribbon	Flapping Flags
Jasper	Dressage	Alfalfa Cube	Left Handed	Gold Ribbon	Flapping Flags
Clover	Trail Ride	Juicy Carrot	Left Handed	Red Ribbon	Loud Whistles
Victor	Jump Show	Sweet Oat	Left Handed	Blue Ribbon	Shiny Buckets
Rosie	Trail Ride	Alfalfa Cube	Right Handed	Blue Ribbon	Flapping Flags
Gideon	Jump Show	Sugar Cube	Left Handed	Blue Ribbon	Flapping Flags

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CLUE 1 Place value

You count the bales of hay using tens and ones to find a written note in the loft.

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



What number has 7 tens and 5 ones? ☐ → T

What number has 3 tens and 2 ones? ☐ → N

What number has 7 tens and 6 ones? ☐ → S

What number has 3 tens and 0 ones? ☐ → H

What number has 6 tens and 6 ones? ☐ → W

What number has 9 tens and 9 ones? ☐ → E

What number has 3 tens and 4 ones? ☐ → D

What number has 3 tens and 6 ones? ☐ → K

What number has 7 tens and 2 ones? ☐ → O

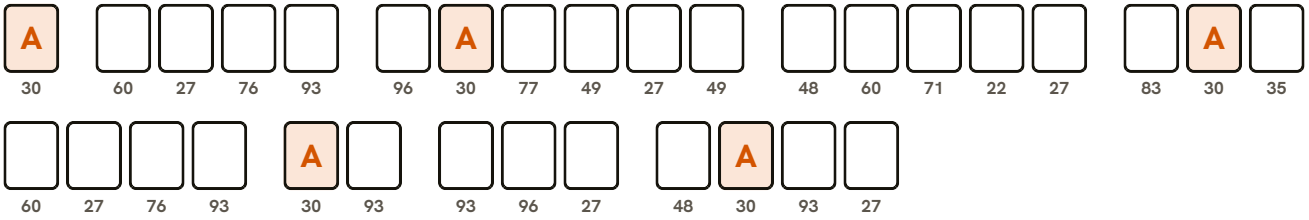
What number has 5 tens and 7 ones? ☐ → A

Scratch space:

CLUE 2 Addition

You add up the horseshoes in two supply boxes to read the message on the wall.

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



19 + 11 = ☐ → A

40 + 31 = ☐ → O

24 + 25 = ☐ → D

30 + 30 = ☐ → L

45 + 51 = ☐ → H

34 + 49 = ☐ → W

31 + 17 = ☐ → G

40 + 53 = ☐ → T

26 + 50 = ☐ → F

11 + 16 = ☐ → E

19 + 16 = ☐ → S

41 + 36 = ☐ → N

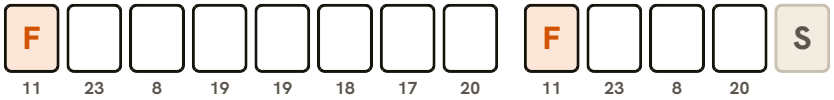
15 + 7 = ☐ → V

Scratch space:

CLUE 3 Word problems

You solve a story problem about grooming brushes to unlock the tack room box.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with 

.

Palfrey rider found 3 saddle pads yesterday and 8 more today. How many saddle pads in all?

Answer: ☐ → **F**

Palfrey rider found 5 horseshoes yesterday and 14 more today. How many horseshoes in all?

Answer: ☐ → **P**

Palfrey rider lined up 2 rows of 10 saddle pads. How many saddle pads in all?

Answer: ☐ → **G**

Palfrey rider found 5 water buckets yesterday and 3 more today. How many water buckets in all?

Answer: ☐ → **A**

There were 29 saddle pads. 6 were used up. How many saddle pads are left?

Answer: ☐ → **L**

There were 19 riding helmets. 2 were used up. How many riding helmets are left?

Answer: ☐ → **N**

Palfrey rider lined up 6 rows of 3 water buckets. How many water buckets in all?

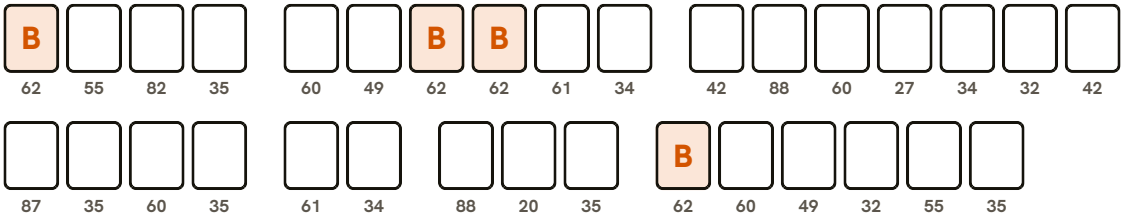
Answer: ☐ → **I**

Scratch space:

CLUE 4 Subtraction

You take away the dirty blankets from the laundry pile to spot a hidden clue.

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



82 - 20 = ☐ → B

124 - 37 = ☐ → W

77 - 22 = ☐ → L

112 - 30 = ☐ → U

90 - 2 = ☐ → T

77 - 17 = ☐ → R

96 - 35 = ☐ → O

30 - 10 = ☐ → H

59 - 17 = ☐ → S

58 - 24 = ☐ → N

89 - 40 = ☐ → I

53 - 26 = ☐ → A

71 - 39 = ☐ → D

40 - 5 = ☐ → E

Scratch space:

CLUE 5 Missing addends - the last clue

You figure out how many missing apples are needed for the reward basket.

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:

8 + ___ = 19 ☐	3 + ___ = 4 ☐	5 + ___ = 9 ☐	7 + ___ = 13 ☐	6 + ___ = 8 ☐
10 + ___ = 22 ☐	10 + ___ = 15 ☐	3 + ___ = 10 ☐	1 + ___ = 10 ☐	
4 + ___ = 12 ☐	3 + ___ = 6 ☐			

Step 2 - cross out the sentence with each answer:

1. The villain cleared the big fence, then munching a sugar cube.
2. The villain zipped around the barrels, then nibbling sweet oats.
3. The villain cleared the big fence, then snacked on a crunchy apple.
4. The villain zipped around the barrels, then snacked on a crunchy apple.
5. The villain danced through the arena, then nibbling sweet oats.
6. The villain cleared the big fence, then nibbling sweet oats.
7. The villain trotted down the forest trail, then nibbling sweet oats.
8. The villain pranced around the paddock, then crunching a juicy carrot.
9. The villain pranced around the paddock, then munching a sugar cube.
10. The villain trotted down the forest trail, then crunching a juicy carrot.
11. The villain danced through the arena, then munching a sugar cube.
12. The villain danced through the arena, then chewing an alfalfa cube.

TEACHER / PARENT

Answer Key

The Whispering Willows Trophy Mystery

Culprit: Quinn

Trail Ride · Juicy Carrot · Left Handed · Blue Ribbon · Flapping Flags

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAK DOES NOT EAT SWEET OATS"

What number has 7 tens and 5 ones? = 75 (T) · What number has 3 tens and 2 ones? = 32 (N) · What number has 7 tens and 6 ones? = 76 (S) · What number has 3 tens and 0 ones? = 30 (H) · What number has 6 tens and 6 ones? = 66 (W) · What number has 9 tens and 9 ones? = 99 (E) · What number has 3 tens and 4 ones? = 34 (D) · What number has 3 tens and 6 ones? = 36 (K) · What number has 7 tens and 2 ones? = 72 (O) · What number has 5 tens and 7 ones? = 57 (A)

Clue 2 (Addition): "A LEFT HANDED GLOVE WAS LEFT AT THE GATE"

19 + 11 = 30 (A) · 40 + 31 = 71 (O) · 24 + 25 = 49 (D) · 30 + 30 = 60 (L) · 45 + 51 = 96 (H) · 34 + 49 = 83 (W) · 31 + 17 = 48 (G) · 40 + 53 = 93 (T) · 26 + 50 = 76 (F) · 11 + 16 = 27 (E) · 19 + 16 = 35 (S) · 41 + 36 = 77 (N) · 15 + 7 = 22 (V)

Clue 3 (Word problems): "FLAPPING FLAGS"

Palfrey rider found 3 saddle pads yesterday and 8 more today. How many saddle pads in all? = 11 (F) · Palfrey rider found 5 horseshoes yesterday and 14 more today. How many horseshoes in all? = 19 (P) · Palfrey rider lined up 2 rows of 10 saddle pads. How many saddle pads in all? = 20 (G) · Palfrey rider found 5 water buckets yesterday and 3 more today. How many water buckets in all? = 8 (A) · There were 29 saddle pads. 6 were used up. How many saddle pads are left? = 23 (L) · There were 19 riding helmets. 2 were used up. How many riding helmets are left? = 17 (N) · Palfrey rider lined up 6 rows of 3 water buckets. How many water buckets in all? = 18 (I)

Clue 4 (Subtraction): "BLUE RIBBON STRANDS WERE ON THE BRIDLE"

82 - 20 = 62 (B) · 124 - 37 = 87 (W) · 77 - 22 = 55 (L) · 112 - 30 = 82 (U) · 90 - 2 = 88 (T) · 77 - 17 = 60 (R) · 96 - 35 = 61 (O) · 30 - 10 = 20 (H) · 59 - 17 = 42 (S) · 58 - 24 = 34 (N) · 89 - 40 = 49 (I) · 53 - 26 = 27 (A) · 71 - 39 = 32 (D) · 40 - 5 = 35 (E)

Clue 5 (Missing addends): surviving statement is box 10 → Quinn

8 + ___ = 19 = 11 · 3 + ___ = 4 = 1 · 5 + ___ = 9 = 4 · 7 + ___ = 13 = 6 · 6 + ___ = 8 = 2 · 10 + ___ = 22 = 12 · 10 + ___ = 15 = 5 · 3 + ___ = 10 = 7 · 1 + ___ = 10 = 9 · 4 + ___ = 12 = 8 · 3 + ___ = 6 = 3