



The Camp Green Lake Mystery

Grade 2 math · Subtraction, Word problems, Multiplication, Rounding, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

Someone dug up the Wardens secret treasure chest last night. We must find the sneaky dirt thief 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 dirt thief is _____

Possible suspects

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

NAME	SHOVEL TOOL	CAMP BADGE	SHOVELING HAND	SUN HAT STYLE	SECRET FEAR
Mr Pendanski	Splatters Shield	Tent Captain	Righty Shoveler	Red Sunhat	Fear of Water
Twitch	Golden Shovel	Shovel Tuner	Righty Shoveler	Dusty Cap	Fear of Peaches
Mr Sir	Splatters Shield	Dirt Inspector	Righty Shoveler	Dusty Cap	Fear of Water
Magnet	Sack of Onions	Water Carrier	Righty Shoveler	Red Sunhat	Fear of Water
Stanley III	Golden Shovel	Water Carrier	Righty Shoveler	Dusty Cap	Fear of Peaches
Armpit	Canteen Belt	Shovel Tuner	Lefty Shoveler	Red Sunhat	Fear of Water
Derrick	Sack of Onions	Water Carrier	Lefty Shoveler	Dusty Cap	Fear of Water
Zigzag	Heavy Pickaxe	Shovel Tuner	Righty Shoveler	Red Sunhat	Fear of Water
Linda	Canteen Belt	Water Carrier	Righty Shoveler	Red Sunhat	Fear of Peaches
Barfbag	Sack of Onions	Shovel Tuner	Righty Shoveler	Dusty Cap	Fear of Lizards
XRay	Golden Shovel	Tent Captain	Righty Shoveler	Straw Fedora	Fear of Water
Kate	Sack of Onions	Dirt Inspector	Lefty Shoveler	Red Sunhat	Fear of Peaches
Squid	Golden Shovel	Tent Captain	Righty Shoveler	Red Sunhat	Fear of Water
Warden	Heavy Pickaxe	Lizard Wrangler	Righty Shoveler	Red Sunhat	Fear of Water
Sam	Heavy Pickaxe	Lizard Wrangler	Lefty Shoveler	Red Sunhat	Fear of Water
Clyde	Sack of Onions	Dirt Inspector	Lefty Shoveler	Dusty Cap	Fear of Lizards
Trout	Sack of Onions	Tent Captain	Righty Shoveler	Red Sunhat	Fear of Lizards
Zero	Sack of Onions	Dirt Inspector	Righty Shoveler	Straw Fedora	Fear of Water
Zeroni	Canteen Belt	Lizard Wrangler	Lefty Shoveler	Straw Fedora	Fear of Peaches
Tiffany	Canteen Belt	Shovel Tuner	Righty Shoveler	Straw Fedora	Fear of Water
Hector	Canteen Belt	Dirt Inspector	Lefty Shoveler	Red Sunhat	Fear of Lizards

CLUE 1

Subtraction

We count the shovels in the shed. Some are missing from the rack.

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

T																	
42	33	29	86	19	46	60	46	85	44	13	46	39	85	16	42	44	

		T										
20	44	42	29	19	86	44	19	19	46	29	19	

$46 - 4 = \square \rightarrow \boxed{\text{T}}$

$45 - 6 = \square \rightarrow \boxed{\text{S}}$

$26 - 7 = \square \rightarrow \boxed{\text{R}}$

$125 - 39 = \square \rightarrow \boxed{\text{C}}$

$61 - 1 = \square \rightarrow \boxed{\text{M}}$

$124 - 39 = \square \rightarrow \boxed{\text{N}}$

$67 - 38 = \square \rightarrow \boxed{\text{E}}$

$76 - 30 = \square \rightarrow \boxed{\text{I}}$

$32 - 12 = \square \rightarrow \boxed{\text{W}}$

$52 - 39 = \square \rightarrow \boxed{\text{L}}$

$22 - 6 = \square \rightarrow \boxed{\text{O}}$

$54 - 10 = \square \rightarrow \boxed{\text{A}}$

$44 - 11 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 2

Word problems

Stanley writes down a note about the suspect in the dirt.

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

A witness saw the villain was R O V E L E R .

40 11 25 19 31 37 6 19 40

Stanley lined up 8 rows of 5 lizard jars. How many lizard jars in all?

Answer: → R

Stanley found 6 canteen cups yesterday and 5 more today. How many canteen cups in all?

Answer: → I

There were 47 dry boots. 10 were used up. How many dry boots are left?

Answer: → Y

Stanley found 17 canteen cups yesterday and 14 more today. How many canteen cups in all?

Answer: → T

Stanley found 9 onions yesterday and 16 more today. How many onions in all?

Answer: → G

There were 28 dry boots. 9 were used up. How many dry boots are left?

Answer: → H

There were 15 onions. 9 were used up. How many onions are left?

Answer: → S

Scratch space:

Multiplication facts (1-12)

We see neat rows of tents. Each row has the same number of cots.

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

The diagram shows two rows of boxes, each representing a sequence of numbers. The top row has 16 boxes, and the bottom row has 12 boxes. Some boxes are highlighted in orange and contain the letter 'T'.

Top Row:

- Box 1: Orange, contains 'T', value 44
- Box 2: value 14
- Box 3: value 144
- Box 4: value 11
- Box 5: value 15
- Box 6: value 4
- Box 7: value 110
- Box 8: value 45
- Box 9: value 9
- Box 10: Orange, contains 'T', value 44
- Box 11: value 144
- Box 12: value 88
- Box 13: value 30
- Box 14: value 21
- Box 15: value 30
- Box 16: value 11
- Box 17: value 22
- Box 18: value 110
- Box 19: value 120
- Box 20: value 80

Bottom Row:

- Box 1: value 30
- Box 2: value 15
- Box 3: value 4
- Box 4: value 24
- Box 5: value 30
- Box 6: value 15
- Box 7: value 14
- Box 8: value 120
- Box 9: value 22
- Box 10: value 21
- Box 11: value 30
- Box 12: Orange, contains 'T', value 44
- Box 13: value 144
- Box 14: value 110

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

$10 \times 12 = \boxed{} \rightarrow \boxed{0}$

$5 \times 3 = \square \rightarrow \boxed{\mathbf{S}}$

$11 \times 10 = \boxed{} \rightarrow \boxed{\text{R}}$

$$3 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$12 \times 12 = \boxed{} \rightarrow \boxed{\text{E}}$

$1 \times 11 = \boxed{} \rightarrow \boxed{\text{Y}}$

$$1 \times 9 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$5 \times 6 = \boxed{} \rightarrow \boxed{\text{A}}$$

$4 \times 1 = \boxed{} \rightarrow \boxed{\text{P}}$

$9 \times 5 = \boxed{} \rightarrow \boxed{1}$

$11 \times 2 = \boxed{} \rightarrow \boxed{\text{F}}$

$10 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{M}}$

$4 \times 6 = \square \rightarrow \boxed{\text{L}}$

$11 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

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

Scratch space:

CLUE 4
Rounding

The dusty old scale only gives us a rough rounded weight of the boots.

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

W																
40	80	50	800	70	600	900	700	300	90	500	700	20	500	80	900	

90	60	500	80	700	900	50	500	800	400	700	60	700	90		

Round 41 to the nearest ten → **W**

Round 649 to the nearest hundred → **N**

Round 60 to the nearest ten → **H**

Round 471 to the nearest hundred → **R**

Round 701 to the nearest hundred → **A**

Round 19 to the nearest ten → **Y**

Round 846 to the nearest hundred → **O**

Round 82 to the nearest ten → **E**

Round 372 to the nearest hundred → **M**

Round 282 to the nearest hundred → **S**

Round 74 to the nearest ten → **U**

Round 877 to the nearest hundred → **D**

Round 86 to the nearest ten → **T**

Round 51 to the nearest ten → **F**

Scratch space:

CLUE 5**Missing addends - the last clue**

We have some onions in the bag but we need more to make a full sack.

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:

$10 + \underline{\quad} = 18$

$10 + \underline{\quad} = 17$

$4 + \underline{\quad} = 16$

$8 + \underline{\quad} = 9$

$9 + \underline{\quad} = 12$

$7 + \underline{\quad} = 11$

$7 + \underline{\quad} = 18$

$1 + \underline{\quad} = 3$

$8 + \underline{\quad} = 13$

$8 + \underline{\quad} = 17$

$6 + \underline{\quad} = 16$

Step 2 - cross out the sentence with each answer:

1. The villain scooped up a pile of dry dirt, then scrambled up the big thumb mountain.
2. The villain scooped up a pile of dry dirt, then dashed toward the dry lake.
3. The villain scooped up a pile of dry dirt, then ran off into the desert.
4. The villain dug a deep hole in the clay, then dashed toward the dry lake.
5. The villain carved out a giant trench, then ran off into the desert.
6. The villain cleared a path through the sand, then ran off into the desert.
7. The villain dug a deep hole in the clay, then hid in the shadow of a tent.
8. The villain cleared a path through the sand, then dashed toward the dry lake.
9. The villain tossed a shovel full of gravel, then scrambled up the big thumb mountain.
10. The villain cleared a path through the sand, then scrambled up the big thumb mountain.
11. The villain dug a deep hole in the clay, then scrambled up the big thumb mountain.
12. The villain scooped up a pile of dry dirt, then hid in the shadow of a tent.

Answer Key

The Camp Green Lake Mystery

Culprit: Warden

Heavy Pickaxe · Lizard Wrangler · Righty Shoveler · Red Sunhat · Fear of Water

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE CRIMINAL IS NOT A WATER CARRIER"

$46 - 4 = 42$ (T) · $45 - 6 = 39$ (S) · $26 - 7 = 19$ (R) · $125 - 39 = 86$ (C) · $61 - 1 = 60$ (M) · $124 - 39 = 85$ (N) · $67 - 38 = 29$ (E) · $76 - 30 = 46$ (I) · $32 - 12 = 20$ (W) · $52 - 39 = 13$ (L) · $22 - 6 = 16$ (O) · $54 - 10 = 44$ (A) · $44 - 11 = 33$ (H)

Clue 2 (Word problems): "RIGHTY SHOVELER"

Stanley lined up 8 rows of 5 lizard jars. How many lizard jars in all? = 40 (R) · Stanley found 6 canteen cups yesterday and 5 more today. How many canteen cups in all? = 11 (I) · There were 47 dry boots. 10 were used up. How many dry boots are left? = 37 (Y) · Stanley found 17 canteen cups yesterday and 14 more today. How many canteen cups in all? = 31 (T) · Stanley found 9 onions yesterday and 16 more today. How many onions in all? = 25 (G) · There were 28 dry boots. 9 were used up. How many dry boots are left? = 19 (H) · There were 15 onions. 9 were used up. How many onions are left? = 6 (S)

Clue 3 (Multiplication facts (1-12)): "THEY SPRINTED AWAY FROM A SPLASH OF WATER"

$11 \times 4 = 44$ (T) · $10 \times 12 = 120$ (O) · $5 \times 3 = 15$ (S) · $11 \times 10 = 110$ (R) · $3 \times 7 = 21$ (W) · $12 \times 12 = 144$ (E) · $1 \times 11 = 11$ (Y) · $1 \times 9 = 9$ (N) · $5 \times 6 = 30$ (A) · $4 \times 1 = 4$ (P) · $9 \times 5 = 45$ (I) · $11 \times 2 = 22$ (F) · $10 \times 8 = 80$ (M) · $4 \times 6 = 24$ (L) · $11 \times 8 = 88$ (D) · $2 \times 7 = 14$ (H)

Clue 4 (Rounding): "WE FOUND A STRAY RED THREAD FROM A HAT"

Round 41 to the nearest ten = 40 (W) · Round 649 to the nearest hundred = 600 (N) · Round 60 to the nearest ten = 60 (H) · Round 471 to the nearest hundred = 500 (R) · Round 701 to the nearest hundred = 700 (A) · Round 19 to the nearest ten = 20 (Y) · Round 846 to the nearest hundred = 800 (O) · Round 82 to the nearest ten = 80 (E) · Round 372 to the nearest hundred = 400 (M) · Round 282 to the nearest hundred = 300 (S) · Round 74 to the nearest ten = 70 (U) · Round 877 to the nearest hundred = 900 (D) · Round 86 to the nearest ten = 90 (T) · Round 51 to the nearest ten = 50 (F)

Clue 5 (Missing addends): surviving statement is box 6 → Warden

$10 + \underline{\quad} = 18 = 8$ · $10 + \underline{\quad} = 17 = 7$ · $4 + \underline{\quad} = 16 = 12$ · $8 + \underline{\quad} = 9 = 1$ · $9 + \underline{\quad} = 12 = 3$ · $7 + \underline{\quad} = 11 = 4$ · $7 + \underline{\quad} = 18 = 11$ · $1 + \underline{\quad} = 3 = 2$ · $8 + \underline{\quad} = 13 = 5$ · $8 + \underline{\quad} = 17 = 9$ · $6 + \underline{\quad} = 16 = 10$