



The Great Clover Heist

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

Detective: _____ Date: _____

A sneaky goat took the Grand Prize Clover from the barn! We must find the goat before dinner.

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 goat is _____

Possible suspects

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

NAME	FAVORITE SNACK	BARNYARD TRICK	EAR TAG SIDE	HOOF COLOR	SCARED OF
Gandy	purple plums	bucket tipping	left ear tag	brown hooves	water sprayers
Dixie	crispy apples	bucket tipping	left ear tag	black hooves	clapping hands
Goaty	sweet clover	fence jumping	left ear tag	gray hooves	water sprayers
Hazel	golden hay	rope chewing	right ear tag	brown hooves	clapping hands
Toby	golden hay	bucket tipping	right ear tag	brown hooves	water sprayers
Buster	crunchy carrots	gate unlocking	right ear tag	gray hooves	loud whistles
Penny	sweet clover	gate unlocking	right ear tag	brown hooves	water sprayers
Daisy	purple plums	bucket tipping	left ear tag	brown hooves	loud whistles
Rusty	purple plums	fence jumping	left ear tag	brown hooves	water sprayers
Otis	crunchy carrots	hay stacking	left ear tag	brown hooves	water sprayers
Willow	sweet clover	bucket tipping	left ear tag	black hooves	loud whistles
Billy	crispy apples	bucket tipping	left ear tag	black hooves	water sprayers
Buttercup	sweet clover	fence jumping	right ear tag	brown hooves	loud whistles
Ziggy	purple plums	rope chewing	left ear tag	brown hooves	water sprayers
Peanut	crunchy carrots	gate unlocking	left ear tag	brown hooves	water sprayers
Nanny	crunchy carrots	gate unlocking	right ear tag	brown hooves	loud whistles
Snickers	purple plums	rope chewing	right ear tag	gray hooves	loud whistles
Zippy	crispy apples	bucket tipping	right ear tag	black hooves	clapping hands
Coco	crispy apples	hay stacking	right ear tag	black hooves	water sprayers
Pippin	purple plums	fence jumping	right ear tag	black hooves	clapping hands
Barnaby	crunchy carrots	bucket tipping	left ear tag	black hooves	clapping hands

Subtraction

Farmer Dan had ten fresh apples. The sneaky goat ate some. Now there are only four. How many did the goat take?

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

2 7 3 15 1 12 8 3 6

$20 - 4 = \boxed{} \rightarrow \boxed{\text{T}}$

$6 - 2 = \boxed{} \rightarrow \boxed{\text{L}}$

$$18 - 6 = \boxed{} \rightarrow \boxed{0}$$

$13 - 3 = \boxed{} \rightarrow \boxed{\text{N}}$

$4 - 2 = \boxed{} \rightarrow \boxed{\text{C}}$

11 - 4 = → **H**

$20 - 1 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$13 - 5 = \square \rightarrow \boxed{\text{P}}$

$6 - 1 = \boxed{} \rightarrow \boxed{1}$

$20 - 2 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$11 - 8 = \boxed{} \rightarrow \boxed{\text{E}}$

$5 - 4 = \boxed{} \rightarrow \boxed{\mathbf{R}}$

$$20 - 3 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$17 - 2 = \boxed{} \rightarrow \boxed{\text{W}}$

$10 - 4 = \boxed{} \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 2 **Addition**

We find some footprints in the mud. There are three prints by the gate. There are five prints by the barn. How many prints in total?

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

T 16	20	14	8	3	18	T 16	20	18	19	18	2	14	17	T 16	14	18	12
T 16	18	8															

$8 + 8 = \square \rightarrow \boxed{\text{T}}$	$10 + 7 = \square \rightarrow \boxed{\text{F}}$	$9 + 3 = \square \rightarrow \boxed{\text{R}}$	$2 + 6 = \square \rightarrow \boxed{\text{G}}$
$9 + 5 = \square \rightarrow \boxed{\text{E}}$	$6 + 13 = \square \rightarrow \boxed{\text{S}}$	$1 + 1 = \square \rightarrow \boxed{\text{L}}$	
$6 + 12 = \square \rightarrow \boxed{\text{A}}$	$1 + 2 = \square \rightarrow \boxed{\text{O}}$	$9 + 11 = \square \rightarrow \boxed{\text{H}}$	

Scratch space:

CLUE 3 Skip counting

The farm dog jumps across the stones. She hops by twos. Two, four, six, eight! How many hops did she make?

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

R					R								R
130	26	100	30	10	130	24	12	70	20	22	21	130	

		R				R	
30	35	130	20	8	21	130	30

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **A**

Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **F**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **M**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **W**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **U**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **P**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **Y**

Scratch space:

CLUE 4 Place value

We count the dry hay straws. Ten straws make one tidy bundle. We have three bundles and five loose straws. How many straws is that?

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

L																		
81	83	47	70	82	23	87	46	16	52	87	87	47	63	23	65	16	70	73

What number has 8 tens and 1 one? → **L**

What number has 8 tens and 2 ones? → **B**

What number has 1 ten and 6 ones? → **N**

What number has 6 tens and 5 ones? → **I**

What number has 4 tens and 6 ones? → **W**

What number has 7 tens and 0 ones? → **T**

What number has 8 tens and 7 ones? → **O**

What number has 4 tens and 7 ones? → **F**

What number has 7 tens and 3 ones? → **S**

What number has 5 tens and 2 ones? → **H**

What number has 2 tens and 3 ones? → **R**

What number has 6 tens and 3 ones? → **P**

What number has 8 tens and 3 ones? → **E**

Scratch space:

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

The blue bird wants eight seeds. She only has five seeds in her nest. How many more seeds does she need to find?

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:

$3 + \underline{\quad} = 5$

$9 + \underline{\quad} = 17$

$2 + \underline{\quad} = 6$

$4 + \underline{\quad} = 15$

$8 + \underline{\quad} = 11$

$10 + \underline{\quad} = 20$

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

$1 + \underline{\quad} = 7$

$9 + \underline{\quad} = 18$

$9 + \underline{\quad} = 14$

$2 + \underline{\quad} = 9$

Step 2 - cross out the sentence with each answer:

1. The villain crunches on orange carrots, then chews through the thick rope.
2. The villain gobbles up purple plums, then knocks over the water bucket.
3. The villain munchies on some sweet clover, then knocks over the water bucket.
4. The villain crunches on orange carrots, then escapes by unlocking the gate.
5. The villain nibbles on crispy apples, then escapes by unlocking the gate.
6. The villain nibbles on crispy apples, then chews through the thick rope.
7. The villain chews on some golden hay, then knocks over the water bucket.
8. The villain gobbles up purple plums, then leaps right over the high fence.
9. The villain nibbles on crispy apples, then stacks up the heavy hay bales.
10. The villain munchies on some sweet clover, then escapes by unlocking the gate.
11. The villain crunches on orange carrots, then knocks over the water bucket.
12. The villain crunches on orange carrots, then stacks up the heavy hay bales.

Answer Key

The Great Clover Heist

Culprit: Otis

crunchy carrots · hay stacking · left ear tag · brown hooves · water sprayers

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Subtraction): "THE VILLAIN DOES NOT CHEW ROPES"

$20 - 4 = 16$ (T) · $6 - 2 = 4$ (L) · $18 - 6 = 12$ (O) · $13 - 3 = 10$ (N) · $4 - 2 = 2$ (C) · $11 - 4 = 7$ (H) · $20 - 1 = 19$ (A) · $13 - 5 = 8$ (P) · $6 - 1 = 5$ (I) · $20 - 2 = 18$ (D) · $11 - 8 = 3$ (E) · $5 - 4 = 1$ (R) · $20 - 3 = 17$ (V) · $17 - 2 = 15$ (W) · $10 - 4 = 6$ (S)

Clue 2 (Addition): "THE GOAT HAS A LEFT EAR TAG"

$8 + 8 = 16$ (T) · $10 + 7 = 17$ (F) · $9 + 3 = 12$ (R) · $2 + 6 = 8$ (G) · $9 + 5 = 14$ (E) · $6 + 13 = 19$ (S) · $1 + 1 = 2$ (L) · $6 + 12 = 18$ (A) · $1 + 2 = 3$ (O) · $9 + 11 = 20$ (H)

Clue 3 (Skip counting): "RUNS FROM WATER SPRAYERS"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (A) · Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 = 30 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (M) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (Y)

Clue 4 (Place value): "LEFT BROWN HOOF PRINTS"

What number has 8 tens and 1 one? = 81 (L) · What number has 8 tens and 2 ones? = 82 (B) · What number has 1 ten and 6 ones? = 16 (N) · What number has 6 tens and 5 ones? = 65 (I) · What number has 4 tens and 6 ones? = 46 (W) · What number has 7 tens and 0 ones? = 70 (T) · What number has 8 tens and 7 ones? = 87 (O) · What number has 4 tens and 7 ones? = 47 (F) · What number has 7 tens and 3 ones? = 73 (S) · What number has 5 tens and 2 ones? = 52 (H) · What number has 2 tens and 3 ones? = 23 (R) · What number has 6 tens and 3 ones? = 63 (P) · What number has 8 tens and 3 ones? = 83 (E)

Clue 5 (Missing addends): surviving statement is box 12 → Otis

$3 + \underline{\quad} = 5 = 2$ · $9 + \underline{\quad} = 17 = 8$ · $2 + \underline{\quad} = 6 = 4$ · $4 + \underline{\quad} = 15 = 11$ · $8 + \underline{\quad} = 11 = 3$ · $10 + \underline{\quad} = 20 = 10$ · $8 + \underline{\quad} = 9 = 1$ · $1 + \underline{\quad} = 7 = 6$ · $9 + \underline{\quad} = 18 = 9$ · $9 + \underline{\quad} = 14 = 5$ · $2 + \underline{\quad} = 9 = 7$