



The Great Cookie Desert Mystery

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

Detective: _____ Date: _____

The golden rolling pin is gone! The Great Cookie Desert is in big trouble because the cookies will go stale. Help us find the Snack Bandit!

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 Snack Bandit is _____

Possible suspects

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

NAME	DESERT POWER	SNACK GEAR	SNACK TRAIL	SWEET HAIR	SNACK FEAR
Chewy Chuck	melting chocolate paths	rides a fast camel cart	wears shiny crumbs	bright red cherry hair	fears hot milk
Choco Chad	launches salty pretzels	diggs deep with a waffle shovel	wears shiny crumbs	dark brown fudge hair	hates cold ice
Cocoa Caleb	launches salty pretzels	diggs deep with a waffle shovel	wears shiny crumbs	yellow lemon peel hair	hates cold ice
Taffy Tom	blowing cinnamon winds	jumps high on marshmallow shoes	leaves sticky footprints	bright red cherry hair	runs from sour limes
Salty Sam	launches salty pretzels	jumps high on marshmallow shoes	leaves sticky footprints	dark brown fudge hair	fears hot milk
Ginger Gail	melting chocolate paths	diggs deep with a waffle shovel	wears shiny crumbs	dark brown fudge hair	runs from sour limes
Graham Gary	sprinkling sugar sand	slides on a licorice board	leaves sticky footprints	yellow lemon peel hair	runs from sour limes
Muffin Molly	throwing spicy chili dust	flies with soda rockets	leaves sticky footprints	bright red cherry hair	hates cold ice
Sugar Sue	melting chocolate paths	jumps high on marshmallow shoes	leaves sticky footprints	dark brown fudge hair	fears hot milk
Donut Dan	sprinkling sugar sand	jumps high on marshmallow shoes	wears shiny crumbs	yellow lemon peel hair	runs from sour limes
Honey Holly	melting chocolate paths	flies with soda rockets	leaves sticky footprints	yellow lemon peel hair	hates cold ice
Sandy Baker	blowing cinnamon winds	rides a fast camel cart	wears shiny crumbs	dark brown fudge hair	fears hot milk
Chip Charlie	launches salty pretzels	slides on a licorice board	leaves sticky footprints	dark brown fudge hair	hates cold ice
Toffee Tina	throwing spicy chili dust	slides on a licorice board	wears shiny crumbs	yellow lemon peel hair	fears hot milk
Crispy Chris	blowing cinnamon winds	rides a fast camel cart	leaves sticky footprints	dark brown fudge hair	runs from sour limes
Waffle Wendy	blowing cinnamon winds	jumps high on marshmallow shoes	leaves sticky footprints	bright red cherry hair	hates cold ice
Jelly Jack	melting chocolate paths	slides on a licorice board	wears shiny crumbs	dark brown fudge hair	runs from sour limes
Pip Pop	melting chocolate paths	flies with soda rockets	wears shiny crumbs	dark brown fudge hair	runs from sour limes
Berry Bella	sprinkling sugar sand	flies with soda rockets	wears shiny crumbs	dark brown fudge hair	runs from sour limes
Peanut Pete	blowing cinnamon winds	slides on a licorice board	wears shiny crumbs	dark brown fudge hair	runs from sour limes
Sweet Sally	melting chocolate paths	jumps high on marshmallow shoes	wears shiny crumbs	dark brown fudge hair	runs from sour limes

CLUE 1 Addition

We found two bags of lost sweets. Let us add them to find a hint.

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

T									T										T
59	67	75	81	51	70	73	45	59	73	98	75	29	70	98	59				
29	84	45	73	75	98	70	51	84	45	65	98	61	45	65	75				
81	98	51	61	73															

$39 + 20 = \square \rightarrow$ T	$29 + 69 = \square \rightarrow$ O	$51 + 30 = \square \rightarrow$ B
$27 + 24 = \square \rightarrow$ A	$27 + 43 = \square \rightarrow$ N	$41 + 43 = \square \rightarrow$ L
$12 + 17 = \square \rightarrow$ S	$31 + 30 = \square \rightarrow$ R	$40 + 27 = \square \rightarrow$ H
$19 + 26 = \square \rightarrow$ I	$46 + 19 = \square \rightarrow$ C	$36 + 39 = \square \rightarrow$ E
$30 + 43 = \square \rightarrow$ D		

Scratch space:

CLUE 2

Subtraction

The thief ate some of our cookies! We must subtract to see how many are left.

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

T								T									
77	13	86	39	22	49	36	77	39	39	61	48	39	13	75	38	12	

								T									
22	30	36	33	57	39	49	38	77	13	86	39	61	38	21			

$117 - 40 = \square \rightarrow \boxed{\text{T}}$

$26 - 14 = \square \rightarrow \boxed{\text{Y}}$

$74 - 36 = \square \rightarrow \boxed{\text{N}}$

$79 - 40 = \square \rightarrow \boxed{\text{S}}$

$62 - 5 = \square \rightarrow \boxed{\text{B}}$

$43 - 22 = \square \rightarrow \boxed{\text{D}}$

$66 - 33 = \square \rightarrow \boxed{\text{M}}$

$56 - 20 = \square \rightarrow \boxed{\text{U}}$

$17 - 4 = \square \rightarrow \boxed{\text{H}}$

$35 - 5 = \square \rightarrow \boxed{\text{R}}$

$116 - 30 = \square \rightarrow \boxed{\text{E}}$

$101 - 26 = \square \rightarrow \boxed{\text{I}}$

$89 - 28 = \square \rightarrow \boxed{\text{A}}$

$57 - 35 = \square \rightarrow \boxed{\text{C}}$

$68 - 20 = \square \rightarrow \boxed{\text{W}}$

$55 - 6 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 3

Word problems

A friendly camel has a puzzle for us about snack bags. Let us solve it.

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

Someone scared the villain off with

R					R						R	L	I		E	
22	23	13	9	29	22	38	15	9	38	23	22			15		9

Snack Scout lined up 2 rows of 11 gummy bear. How many gummy bear in all?

Answer: → **R**

Snack Scout found 21 juice box yesterday and 2 more today. How many juice box in all?

Answer: → **U**

There were 14 pretzel. 5 were used up. How many pretzel are left?

Answer: → **S**

There were 47 gummy bear. 9 were used up. How many gummy bear are left?

Answer: → **O**

There were 21 pretzel. 8 were used up. How many pretzel are left?

Answer: → **N**

Snack Scout found 7 pretzel yesterday and 8 more today. How many pretzel in all?

Answer: → **M**

There were 31 cookie. 2 were used up. How many cookie are left?

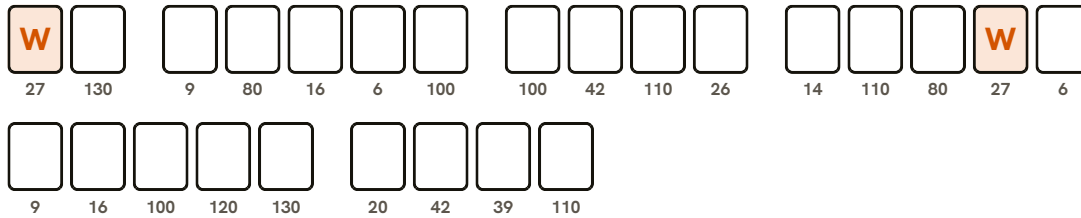
Answer: → **F**

Scratch space:

CLUE 4 Skip counting

Look at the tracks on the dune! They skip by twos. Let us count them.

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



Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 → **R**

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **B**

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

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **G**

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

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

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **F**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48



Scratch space:

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

We need ten cups of juice, but we only have six. How many more do we need?

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:

$6 + \underline{\quad} = 10$

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

$6 + \underline{\quad} = 7$

$8 + \underline{\quad} = 15$

$3 + \underline{\quad} = 13$

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

$5 + \underline{\quad} = 16$

$4 + \underline{\quad} = 6$

$4 + \underline{\quad} = 12$

$10 + \underline{\quad} = 16$

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

Step 2 - cross out the sentence with each answer:

1. The villain sprinkles sugar sand, then flies with soda rockets.
2. The villain launches salty pretzels, then slides on a licorice board.
3. The villain launches salty pretzels, then jumps high on marshmallow shoes.
4. The villain melts chocolate paths, then jumps high on marshmallow shoes.
5. The villain melts chocolate paths, then digs deep with a waffle shovel.
6. The villain launches salty pretzels, then rides a fast camel cart.
7. The villain blows cinnamon winds, then slides on a licorice board.
8. The villain sprinkles sugar sand, then slides on a licorice board.
9. The villain blows cinnamon winds, then flies with soda rockets.
10. The villain blows cinnamon winds, then digs deep with a waffle shovel.
11. The villain blows cinnamon winds, then jumps high on marshmallow shoes.
12. The villain melts chocolate paths, then flies with soda rockets.

Answer Key

The Great Cookie Desert Mystery

Culprit: Pip Pop

melting chocolate paths · flies with soda rockets · wears shiny crumbs · dark brown fudge hair · runs from sour limes

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT SLIDE ON A LICORICE BOARD"

$39 + 20 = 59$ (T) · $29 + 69 = 98$ (O) · $51 + 30 = 81$ (B) · $27 + 24 = 51$ (A) · $27 + 43 = 70$ (N) · $41 + 43 = 84$ (L) · $12 + 17 = 29$ (S) · $31 + 30 = 61$ (R) · $40 + 27 = 67$ (H) · $19 + 26 = 45$ (I) · $46 + 19 = 65$ (C) · $36 + 39 = 75$ (E) · $30 + 43 = 73$ (D)

Clue 2 (Subtraction): "THE SCOUTS SAW SHINY CRUMBS ON THE SAND"

$117 - 40 = 77$ (T) · $26 - 14 = 12$ (Y) · $74 - 36 = 38$ (N) · $79 - 40 = 39$ (S) · $62 - 5 = 57$ (B) · $43 - 22 = 21$ (D) · $66 - 33 = 33$ (M) · $56 - 20 = 36$ (U) · $17 - 4 = 13$ (H) · $35 - 5 = 30$ (R) · $116 - 30 = 86$ (E) · $101 - 26 = 75$ (I) · $89 - 28 = 61$ (A) · $57 - 35 = 22$ (C) · $68 - 20 = 48$ (W) · $55 - 6 = 49$ (O)

Clue 3 (Word problems): "RUNS FROM SOUR LIMES"

Snack Scout lined up 2 rows of 11 gummy bear. How many gummy bear in all? = 22 (R) · Snack Scout found 21 juice box yesterday and 2 more today. How many juice box in all? = 23 (U) · There were 14 pretzel. 5 were used up. How many pretzel are left? = 9 (S) · There were 47 gummy bear. 9 were used up. How many gummy bear are left? = 38 (O) · There were 21 pretzel. 8 were used up. How many pretzel are left? = 13 (N) · Snack Scout found 7 pretzel yesterday and 8 more today. How many pretzel in all? = 15 (M) · There were 31 cookie. 2 were used up. How many cookie are left? = 29 (F)

Clue 4 (Skip counting): "WE FOUND DARK BROWN FUDGE HAIR"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (K) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (U) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (D) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (A)

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

$6 + \underline{\quad} = 10 = 4$ · $9 + \underline{\quad} = 14 = 5$ · $6 + \underline{\quad} = 7 = 1$ · $8 + \underline{\quad} = 15 = 7$ · $3 + \underline{\quad} = 13 = 10$ · $8 + \underline{\quad} = 17 = 9$ · $5 + \underline{\quad} = 16 = 11$ · $4 + \underline{\quad} = 6 = 2$ · $4 + \underline{\quad} = 12 = 8$ · $10 + \underline{\quad} = 16 = 6$ · $9 + \underline{\quad} = 12 = 3$