



The Mystery of the Missing Starlight Crown

Grade 3 math · Addition, Place value, Skip counting, Rounding, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Someone hid the park crown right before the grand parade! Use your math skills to find the prankster.

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 Shadow Prankster is _____

Possible suspects

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

NAME	MAGIC TOOL	RIDE VEHICLE	DOMINANT HAND	HAIR COLOR	FOILED BY
Eugene	Spinning Wheel	Glass Slipper	Right handed	Red Hair	Bright Sunlight
Stitch	Poison Apple	Sorcerer Hat	Right handed	Blonde Hair	Fresh Flowers
Wendy	Poison Apple	Genie Lamp	Left handed	Red Hair	Fresh Flowers
Goofy	Poison Apple	Sorcerer Hat	Right handed	Blonde Hair	Bright Sunlight
Peter	Pixie Dust	Pumpkin Coach	Left handed	Blonde Hair	Fresh Flowers
Simba	Spinning Wheel	Genie Lamp	Left handed	Blonde Hair	Loud Music
Daisy	Enchanted Mirror	Sorcerer Hat	Right handed	Black Hair	Fresh Flowers
Donald	Spinning Wheel	Glass Slipper	Left handed	Blonde Hair	Fresh Flowers
Rapunzel	Enchanted Mirror	Pumpkin Coach	Left handed	Black Hair	Loud Music
Woody	Poison Apple	Genie Lamp	Right handed	Black Hair	Bright Sunlight
Belle	Enchanted Mirror	Glass Slipper	Right handed	Blonde Hair	Fresh Flowers
Pocahontas	Enchanted Mirror	Sorcerer Hat	Right handed	Black Hair	Bright Sunlight
Mulan	Magic Wand	Glass Slipper	Right handed	Blonde Hair	Fresh Flowers
Ariel	Pixie Dust	Pumpkin Coach	Right handed	Blonde Hair	Fresh Flowers
Hercules	Pixie Dust	Flying Carpet	Right handed	Blonde Hair	Fresh Flowers
Pluto	Poison Apple	Flying Carpet	Left handed	Red Hair	Loud Music
Elsa	Enchanted Mirror	Flying Carpet	Left handed	Blonde Hair	Fresh Flowers
Tarzan	Spinning Wheel	Flying Carpet	Right handed	Blonde Hair	Bright Sunlight
Moana	Spinning Wheel	Sorcerer Hat	Left handed	Black Hair	Fresh Flowers
Jasmine	Pixie Dust	Glass Slipper	Left handed	Black Hair	Loud Music
Minnie	Magic Wand	Glass Slipper	Left handed	Black Hair	Bright Sunlight

CLUE 1 Addition

We add up all the magic tickets collected at the main gate to uncover our first mystery clue.

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

T																T
597	515	279	299	820	319	319	650	820	619	560	305	279	627	619	305	597
																T
370	627	279	650	241	319	603	820	619	602	824	650	503	289	279	597	

$231 + 366 = \square \rightarrow \mathbf{T}$	$281 + 279 = \square \rightarrow \mathbf{D}$	$145 + 144 = \square \rightarrow \mathbf{P}$
$103 + 196 = \square \rightarrow \mathbf{V}$	$233 + 137 = \square \rightarrow \mathbf{U}$	$408 + 416 = \square \rightarrow \mathbf{C}$
$219 + 100 = \square \rightarrow \mathbf{L}$	$163 + 78 = \square \rightarrow \mathbf{F}$	$347 + 473 = \square \rightarrow \mathbf{I}$
$186 + 119 = \square \rightarrow \mathbf{O}$	$287 + 363 = \square \rightarrow \mathbf{A}$	$119 + 160 = \square \rightarrow \mathbf{E}$
$353 + 266 = \square \rightarrow \mathbf{N}$	$310 + 193 = \square \rightarrow \mathbf{R}$	$207 + 308 = \square \rightarrow \mathbf{H}$
$378 + 249 = \square \rightarrow \mathbf{S}$	$245 + 357 = \square \rightarrow \mathbf{G}$	$315 + 288 = \square \rightarrow \mathbf{Y}$

Scratch space:

CLUE 2 Place value

The glowing park scoreboard shows a digit in the hundreds place that reveals clue two.

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

A							A											
4000	9000	3000	60	800	70	800	4000	40	600	7000	600	500	90	500	100	7000	900	70

	A								
8000	4000	500	500	100	300	70	70	7000	600

What is the value of the 4 in 14,097?

→ **A**

What is the value of the 9 in 9,136?

→ **R**

What is the value of the 1 in 142?

→ **P**

What is the value of the 8 in 8,020?

→ **W**

What is the value of the 6 in 762?

→ **G**

What is the value of the 7 in 672?

→ **T**

What is the value of the 4 in 540?

→ **N**

What is the value of the 6 in 5,605?

→ **D**

What is the value of the 9 in 900?

→ **C**

What is the value of the 8 in 1,825?

→ **H**

What is the value of the 3 in 7,319?

→ **O**

What is the value of the 5 in 4,524?

→ **S**

What is the value of the 3 in 83,079?

→ **I**

What is the value of the 9 in 792?

→ **U**

What is the value of the 7 in 7,318?

→ **E**

Scratch space:

CLUE 3 Skip counting

We count along the castle path in jumps of five to track down our third clue.

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

T																		
6	110	18	16	27	60	60	35	27	15	80	35	8	90	45	27	60	18	21

140	120	90	60	45	80	18	70	8

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **B**

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

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

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

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **L**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **O**

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

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

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **N**

Scratch space:

CLUE 4

Rounding

The parade crystal monitor rounds the total crowd count to reveal clue four.

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

B																	
900	2000	40	800	400	9000	3000	8000	70	4000	90	8000	20	300	40	60	800	400

8000	700	700	3000	9000	20	5000	9000	800	9000

Round 907 to the nearest hundred → **B**

Round 9,283 to the nearest thousand → **E**

Round 445 to the nearest hundred → **D**

Round 17 to the nearest ten → **S**

Round 39 to the nearest ten → **O**

Round 2,065 to the nearest thousand → **L**

Round 69 to the nearest ten → **I**

Round 86 to the nearest ten → **W**

Round 313 to the nearest hundred → **F**

Round 2,984 to the nearest thousand → **H**

Round 847 to the nearest hundred → **N**

Round 63 to the nearest ten → **U**

Round 3,710 to the nearest thousand → **R**

Round 5,450 to the nearest thousand → **C**

Round 8,379 to the nearest thousand → **A**

Round 698 to the nearest hundred → **T**

Scratch space:

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

We solve for the missing magic stars needed to unlock the final clue box.

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:

$6 + \underline{\quad} = 18$

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

$6 + \underline{\quad} = 11$

$6 + \underline{\quad} = 12$

$7 + \underline{\quad} = 15$

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

$7 + \underline{\quad} = 17$

$7 + \underline{\quad} = 14$

$7 + \underline{\quad} = 10$

$10 + \underline{\quad} = 19$

$1 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain offered a poison apple, then donned a sorcerer hat.
2. The villain sprinkled pixie dust, then donned a sorcerer hat.
3. The villain gazed into an enchanted mirror, then donned a sorcerer hat.
4. The villain sprinkled pixie dust, then chased a pumpkin coach.
5. The villain gazed into an enchanted mirror, then dropped a glass slipper.
6. The villain gazed into an enchanted mirror, then chased a pumpkin coach.
7. The villain spun a spinning wheel, then donned a sorcerer hat.
8. The villain gazed into an enchanted mirror, then rubbed a genie lamp.
9. The villain spun a spinning wheel, then escaped on a flying carpet.
10. The villain waved a magic wand, then chased a pumpkin coach.
11. The villain sprinkled pixie dust, then dropped a glass slipper.
12. The villain waved a magic wand, then dropped a glass slipper.

Answer Key

The Mystery of the Missing Starlight Crown

Culprit: Stitch

Poison Apple · Sorcerer Hat · Right handed · Blonde Hair · Fresh Flowers

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A FLYING CARPET"

$231 + 366 = 597$ (T) · $281 + 279 = 560$ (D) · $145 + 144 = 289$ (P) · $103 + 196 = 299$ (V) · $233 + 137 = 370$ (U) · $408 + 416 = 824$ (C) · $219 + 100 = 319$ (L) · $163 + 78 = 241$ (F) · $347 + 473 = 820$ (I) · $186 + 119 = 305$ (O) · $287 + 363 = 650$ (A) · $119 + 160 = 279$ (E) · $353 + 266 = 619$ (N) · $310 + 193 = 503$ (R) · $207 + 308 = 515$ (H) · $378 + 249 = 627$ (S) · $245 + 357 = 602$ (G) · $315 + 288 = 603$ (Y)

Clue 2 (Place value): "A RIGHT HANDED SUSPECT WAS SPOTTED"

What is the value of the 4 in 14,097? = 4000 (A) · What is the value of the 9 in 9,136? = 9000 (R) · What is the value of the 1 in 142? = 100 (P) · What is the value of the 8 in 8,020? = 8000 (W) · What is the value of the 6 in 762? = 60 (G) · What is the value of the 7 in 672? = 70 (T) · What is the value of the 4 in 540? = 40 (N) · What is the value of the 6 in 5,605? = 600 (D) · What is the value of the 9 in 900? = 900 (C) · What is the value of the 8 in 1,825? = 800 (H) · What is the value of the 3 in 7,319? = 300 (O) · What is the value of the 5 in 4,524? = 500 (S) · What is the value of the 3 in 83,079? = 3000 (I) · What is the value of the 9 in 792? = 90 (U) · What is the value of the 7 in 7,318? = 7000 (E)

Clue 3 (Skip counting): "THE VILLAIN WAS FOILED BY FLOWERS"

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (I) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (N)

Clue 4 (Rounding): "BLONDE HAIR WAS FOUND AT THE SCENE"

Round 907 to the nearest hundred = 900 (B) · Round 9,283 to the nearest thousand = 9000 (E) · Round 445 to the nearest hundred = 400 (D) · Round 17 to the nearest ten = 20 (S) · Round 39 to the nearest ten = 40 (O) · Round 2,065 to the nearest thousand = 2000 (L) · Round 69 to the nearest ten = 70 (I) · Round 86 to the nearest ten = 90 (W) · Round 313 to the nearest hundred = 300 (F) · Round 2,984 to the nearest thousand = 3000 (H) · Round 847 to the nearest hundred = 800 (N) · Round 63 to the nearest ten = 60 (U) · Round 3,710 to the nearest thousand = 4000 (R) · Round 5,450 to the nearest thousand = 5000 (C) · Round 8,379 to the nearest thousand = 8000 (A) · Round 698 to the nearest hundred = 700 (T)

Clue 5 (Missing addends): surviving statement is box 1 → Stitch

$6 + \underline{\quad} = 18 = 12$ · $2 + \underline{\quad} = 6 = 4$ · $6 + \underline{\quad} = 11 = 5$ · $6 + \underline{\quad} = 12 = 6$ · $7 + \underline{\quad} = 15 = 8$ · $3 + \underline{\quad} = 5 = 2$ · $7 + \underline{\quad} = 17 = 10$ · $7 + \underline{\quad} = 14 = 7$ · $7 + \underline{\quad} = 10 = 3$ · $10 + \underline{\quad} = 19 = 9$ · $1 + \underline{\quad} = 12 = 11$