

The Case of the Missing Tiara

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

Detective: _____ Date: _____

Someone took the sparkling tiara right before the grand dance! The royal court is in a panic. We must follow the clues to find the sneaky thief!

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 Tiara Thief is _____

Possible suspects

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

NAME	MAGIC SKILL	FAVORITE HOBBY	HAND TRAIT	HAIR STYLE	SECRET FEAR
Merida	talks to animals	paints beautiful art	holds magic fan in right hand	bright red hair	scared of apples
Snow	creates ice magic	paints beautiful art	holds magic fan in left hand	bright red hair	scared of apples
Ariel	grows glowing hair	bakes magic pies	holds magic fan in left hand	bright red hair	allergic to roses
Wendy	talks to animals	shoots trick arrows	holds magic fan in left hand	bright red hair	scared of apples
Jasmine	commands the ocean	swings from vines	holds magic fan in right hand	braided golden hair	scared of apples
Rapunzel	grows glowing hair	paints beautiful art	holds magic fan in left hand	braided golden hair	hates cold water
Moana	has super strength	swings from vines	holds magic fan in right hand	bright red hair	hates cold water
Cinderella	talks to animals	bakes magic pies	holds magic fan in right hand	braided golden hair	hates cold water
Pocahontas	talks to animals	reads ancient books	holds magic fan in right hand	flowing black hair	allergic to roses
Elena	creates ice magic	swings from vines	holds magic fan in right hand	bright red hair	scared of apples
Sofia	creates ice magic	paints beautiful art	holds magic fan in right hand	braided golden hair	scared of apples
Anna	has super strength	reads ancient books	holds magic fan in left hand	braided golden hair	allergic to roses
Giselle	has super strength	shoots trick arrows	holds magic fan in right hand	bright red hair	scared of apples
Megara	creates ice magic	bakes magic pies	holds magic fan in right hand	flowing black hair	allergic to roses
Esmeralda	grows glowing hair	reads ancient books	holds magic fan in left hand	braided golden hair	scared of apples
Vanellope	talks to animals	reads ancient books	holds magic fan in right hand	bright red hair	scared of apples
Aurora	grows glowing hair	shoots trick arrows	holds magic fan in right hand	bright red hair	scared of apples
Jane	creates ice magic	shoots trick arrows	holds magic fan in right hand	braided golden hair	allergic to roses
Elsa	commands the ocean	paints beautiful art	holds magic fan in right hand	braided golden hair	scared of apples
Belle	commands the ocean	bakes magic pies	holds magic fan in left hand	braided golden hair	scared of apples
Alice	has super strength	shoots trick arrows	holds magic fan in left hand	flowing black hair	allergic to roses

CLUE 1 Addition

A royal helper counts the lost crowns. She adds the small crowns and the large crowns to find the total.

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

T																T
12	11	20	16	3	19	19	9	3	15	7	17	20	8	15	17	12

								T							
6	20	9	7	9	15	18	3	20	15	12	2	17	17	14	8

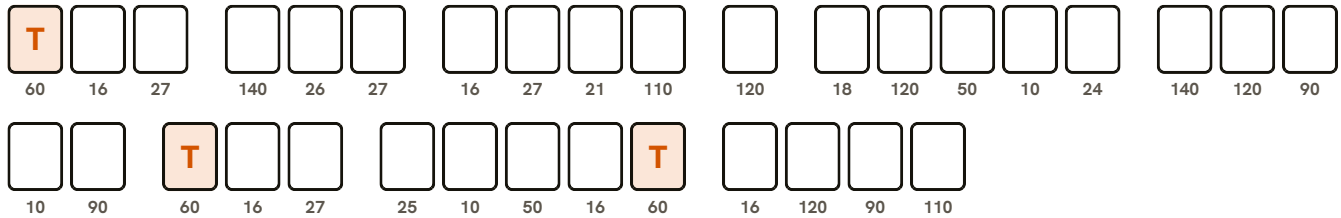
$7 + 5 = \square \rightarrow$ T	$11 + 5 = \square \rightarrow$ V	$3 + 6 = \square \rightarrow$ A	$1 + 1 = \square \rightarrow$ B
$7 + 12 = \square \rightarrow$ L	$11 + 4 = \square \rightarrow$ N	$4 + 3 = \square \rightarrow$ D	
$3 + 8 = \square \rightarrow$ H	$9 + 8 = \square \rightarrow$ O	$14 + 6 = \square \rightarrow$ E	
$4 + 10 = \square \rightarrow$ K	$1 + 2 = \square \rightarrow$ I	$3 + 5 = \square \rightarrow$ S	$3 + 3 = \square \rightarrow$ R
$12 + 6 = \square \rightarrow$ C			

Scratch space:

CLUE 2 Skip counting

We look at the shoe racks. We count the sparkling slippers by twos to find out how many are left.

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



Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **T**

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **G**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **C**

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **R**

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

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

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

→

E

Scratch space:

CLUE 3

Subtraction

The palace baker makes sweet tarts. A sneaky shadow takes some tarts away, leaving only a few.

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

W 13	15	2	4	W 13	6	18	15	2	1	15	4	9	17	16	1
11	17	12	7	4	17	15	19	4	14	14	8	15			

$19 - 6 = \square$

→

W

$16 - 8 = \square$

→

L

$17 - 2 = \square$

→

E

$13 - 4 = \square$

→

K

$18 - 7 = \square$

→

F

$18 - 4 = \square$

→

P

$20 - 2 = \square$

→

H

$7 - 6 = \square$

→

N

$5 - 1 = \square$

→

A

$15 - 9 = \square$

→

T

$7 - 5 = \square$

→

S

$17 - 1 = \square$

→

U

$14 - 2 = \square$

→

O

$20 - 1 = \square$

→

D

$18 - 1 = \square$

→

R

$12 - 5 = \square$

→

M

Scratch space:

CLUE 4

Rounding

The magic mirror is a bit dusty. It can only show a rounded number of sparkles on the wall.

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

W															
60	600	900	50	20	90	40	400	200	700	70	80	500	200	600	40
80	300	700	200	400	800	500	80	600	40	50	50	200			

Round 64 to the nearest ten → **W**

Round 249 to the nearest hundred → **R**

Round 780 to the nearest hundred → **Y**

Round 41 to the nearest ten → **D**

Round 268 to the nearest hundred → **A**

Round 71 to the nearest ten → **G**

Round 20 to the nearest ten → **U**

Round 80 to the nearest ten → **H**

Round 401 to the nearest hundred → **B**

Round 88 to the nearest ten → **N**

Round 938 to the nearest hundred → **F**

Round 525 to the nearest hundred → **T**

Round 50 to the nearest ten → **O**

Round 749 to the nearest hundred → **I**

Round 571 to the nearest hundred → **E**

Scratch space:

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

We need ten magic roses to open the gate. We have some roses but must find how many more 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:

$3 + \underline{\quad} = 15$

$1 + \underline{\quad} = 2$

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

$3 + \underline{\quad} = 10$

$2 + \underline{\quad} = 11$

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

$4 + \underline{\quad} = 14$

$5 + \underline{\quad} = 13$

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

$8 + \underline{\quad} = 19$

$5 + \underline{\quad} = 8$

Step 2 - cross out the sentence with each answer:

1. The villain lifts a heavy carriage, then knocks down a target with a bow.
2. The villain freezes the floor, then knocks down a target with a bow.
3. The villain sings to the birds, then leaves behind warm berry pies.
4. The villain lights up the dark room, then knocks down a target with a bow.
5. The villain sings to the birds, then drops a dusty old scroll.
6. The villain freezes the floor, then swings away on a leafy rope.
7. The villain freezes the floor, then leaves behind warm berry pies.
8. The villain splashes warm sea water, then swings away on a leafy rope.
9. The villain sings to the birds, then knocks down a target with a bow.
10. The villain splashes warm sea water, then leaves behind warm berry pies.
11. The villain lights up the dark room, then swings away on a leafy rope.
12. The villain sings to the birds, then paints a flower on the wall.

Answer Key

The Case of the Missing Tiara

Culprit: Aurora

grows glowing hair · shoots trick arrows · holds magic fan in right hand · bright red hair · scared of apples

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT READ ANCIENT BOOKS"

$7 + 5 = 12$ (T) · $11 + 5 = 16$ (V) · $3 + 6 = 9$ (A) · $1 + 1 = 2$ (B) · $7 + 12 = 19$ (L) · $11 + 4 = 15$ (N) · $4 + 3 = 7$ (D) · $3 + 8 = 11$ (H) · $9 + 8 = 17$ (O) · $14 + 6 = 20$ (E) · $4 + 10 = 14$ (K) · $1 + 2 = 3$ (I) · $3 + 5 = 8$ (S) · $3 + 3 = 6$ (R) · $12 + 6 = 18$ (C)

Clue 2 (Skip counting): "THE FOE HELD A MAGIC FAN IN THE RIGHT HAND"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (M) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (E)

Clue 3 (Subtraction): "WE SAW THE SNEAK RUN FROM A RED APPLE"

$19 - 6 = 13$ (W) · $16 - 8 = 8$ (L) · $17 - 2 = 15$ (E) · $13 - 4 = 9$ (K) · $18 - 7 = 11$ (F) · $18 - 4 = 14$ (P) · $20 - 2 = 18$ (H) · $7 - 6 = 1$ (N) · $5 - 1 = 4$ (A) · $15 - 9 = 6$ (T) · $7 - 5 = 2$ (S) · $17 - 1 = 16$ (U) · $14 - 2 = 12$ (O) · $20 - 1 = 19$ (D) · $18 - 1 = 17$ (R) · $12 - 5 = 7$ (M)

Clue 4 (Rounding): "WE FOUND BRIGHT RED HAIR BY THE DOOR"

Round 64 to the nearest ten = 60 (W) · Round 249 to the nearest hundred = 200 (R) · Round 780 to the nearest hundred = 800 (Y) · Round 41 to the nearest ten = 40 (D) · Round 268 to the nearest hundred = 300 (A) · Round 71 to the nearest ten = 70 (G) · Round 20 to the nearest ten = 20 (U) · Round 80 to the nearest ten = 80 (H) · Round 401 to the nearest hundred = 400 (B) · Round 88 to the nearest ten = 90 (N) · Round 938 to the nearest hundred = 900 (F) · Round 525 to the nearest hundred = 500 (T) · Round 50 to the nearest ten = 50 (O) · Round 749 to the nearest hundred = 700 (I) · Round 571 to the nearest hundred = 600 (E)

Clue 5 (Missing addends): surviving statement is box 4 → Aurora

$3 + \underline{\quad} = 15$ = 12 · $1 + \underline{\quad} = 2$ = 1 · $6 + \underline{\quad} = 12$ = 6 · $3 + \underline{\quad} = 10$ = 7 · $2 + \underline{\quad} = 11$ = 9 · $9 + \underline{\quad} = 14$ = 5 · $4 + \underline{\quad} = 14$ = 10 · $5 + \underline{\quad} = 13$ = 8 · $1 + \underline{\quad} = 3$ = 2 · $8 + \underline{\quad} = 19$ = 11 · $5 + \underline{\quad} = 8$ = 3