



The Great Moon Cup Mystery

Grade 2 math · Rounding, Place value, Addition, Subtraction, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Someone popped the Golden Championship Star-Ball right before the Galactic Dino-Cup finals! The Head Referee needs your help to scan the roster and find the culprit.

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 Dino-Striker is _____

Possible suspects

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

NAME	SUPER MOVE	SPACE GEAR	KICKING FOOT	DINO CREST	FENDING GEAR
Mia Hamm-Saurus	Volcano Slide	Jetpack Tail	Left-Footed	Smooth Scales	Flashlight Beam
Raptor Kane	Gravity-Float Hook	Solar Backpack	Left-Footed	Spiked Crest	Magnet Goal
Marta-Megalos	Volcano Slide	Glow-Glove Mitts	Right-Footed	Feathered Mane	Flashlight Beam
Rooney-Raptor	Asteroid Header	Thruster Boots	Left-Footed	Smooth Scales	Magnet Goal
Suarez-Spike	Asteroid Header	Solar Backpack	Right-Footed	Smooth Scales	Magnet Goal
Tricera-Ronaldo	Gravity-Float Hook	Glow-Glove Mitts	Left-Footed	Spiked Crest	Flashlight Beam
Haaland-Heavy	Asteroid Header	Solar Backpack	Left-Footed	Smooth Scales	Flashlight Beam
Stego-Salah	Volcano Slide	Radar Goggles	Left-Footed	Spiked Crest	Flashlight Beam
Orbit-Tops	Gravity-Float Hook	Jetpack Tail	Right-Footed	Smooth Scales	Flashlight Beam
Saurus-Son	Tail-Slam Kick	Glow-Glove Mitts	Left-Footed	Smooth Scales	Flashlight Beam
Pulisic-Pus	Meteor Dash	Solar Backpack	Left-Footed	Feathered Mane	Squeaky Toy
Yoshi-Star	Volcano Slide	Solar Backpack	Right-Footed	Feathered Mane	Flashlight Beam
Rapinoe-Raptor	Asteroid Header	Thruster Boots	Right-Footed	Smooth Scales	Magnet Goal
Cosmo-Rex	Meteor Dash	Thruster Boots	Left-Footed	Smooth Scales	Flashlight Beam
Comet-Claw	Meteor Dash	Jetpack Tail	Left-Footed	Smooth Scales	Flashlight Beam
Bronto-Beckham	Tail-Slam Kick	Thruster Boots	Right-Footed	Smooth Scales	Magnet Goal
Dembele-Dino	Gravity-Float Hook	Radar Goggles	Left-Footed	Feathered Mane	Magnet Goal
Neymar-Saurus	Asteroid Header	Jetpack Tail	Right-Footed	Spiked Crest	Magnet Goal
Mbappe-Rex	Gravity-Float Hook	Thruster Boots	Left-Footed	Spiked Crest	Squeaky Toy
Alex Morgan-Steg	Meteor Dash	Thruster Boots	Right-Footed	Smooth Scales	Magnet Goal
Bale-Anodon	Tail-Slam Kick	Radar Goggles	Right-Footed	Feathered Mane	Squeaky Toy

CLUE 1 Rounding

The stadium radar only shows rounded numbers. We rounded the velocity of the suspect's getaway rocket to find the first clue.

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

T										T								T
30	500	90	60	800	60	70	90	300	30	400	900	90	60	600	900	30		
80	90	20	200	20	60	900	40	20	200	50	20	300	700	70	20	300	700	

Round 32 to the nearest ten → **T**

Round 48 to the nearest ten → **B**

Round 297 to the nearest hundred → **C**

Round 667 to the nearest hundred → **K**

Round 538 to the nearest hundred → **H**

Round 61 to the nearest ten → **S**

Round 398 to the nearest hundred → **D**

Round 87 to the nearest ten → **E**

Round 69 to the nearest ten → **P**

Round 551 to the nearest hundred → **N**

Round 80 to the nearest ten → **W**

Round 209 to the nearest hundred → **R**

Round 43 to the nearest ten → **L**

Round 827 to the nearest hundred → **U**

Round 17 to the nearest ten → **A**

Round 896 to the nearest hundred → **O**

Scratch space:

CLUE 2 Place value

The locker room door lock uses place value codes. We figured out the tens digit of the suspect's jersey number to get inside.

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

T						T				T							
63	81	50	28	50	29	63	29	30	30	63	28	50	78	57	50	14	78
										T			T				
35	50	50	34	50	43	59	43	78	63	50	43	63	43	78	59	50	

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

What number has 1 ten and 4 ones? → **S**

What number has 5 tens and 0 ones? → **E**

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

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

What number has 4 tens and 3 ones? → **R**

What number has 5 tens and 7 ones? → **V**

What number has 3 tens and 0 ones? → **O**

What number has 3 tens and 5 ones? → **D**

What number has 5 tens and 9 ones? → **C**

What number has 2 tens and 9 ones? → **F**

What number has 3 tens and 4 ones? → **P**

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

Scratch space:

CLUE 3 Addition

The assistant referee tallied up all the cosmic soccer balls left on the practice field. Adding them together revealed a clue.

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

A									A								
31	96	64	61	72	78	40	50	27	31	52	78	27	61	72	78	40	

		A													
96	86	31	46	52	40	74	71	71	86	87	40	78	86		

				A		
98	61	27	27	31	61	65

$10 + 21 = \square \rightarrow$ A	$35 + 51 = \square \rightarrow$ E	$22 + 18 = \square \rightarrow$ T
$26 + 45 = \square \rightarrow$ P	$29 + 21 = \square \rightarrow$ F	$33 + 31 = \square \rightarrow$ R
$27 + 38 = \square \rightarrow$ N	$16 + 11 = \square \rightarrow$ L	$34 + 44 = \square \rightarrow$ H
$56 + 40 = \square \rightarrow$ B	$60 + 27 = \square \rightarrow$ D	$61 + 37 = \square \rightarrow$ V
$15 + 37 = \square \rightarrow$ S	$28 + 33 = \square \rightarrow$ I	$27 + 19 = \square \rightarrow$ M
$33 + 39 = \square \rightarrow$ G	$30 + 44 = \square \rightarrow$ O	

Scratch space:

CLUE 4 Subtraction

The defense robot checked the air pressure of the game balls. Subtracting the flat balls from the total gave us a clue.

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

G						G													
19	55	16	56	43	70	19	48	27	16	16	57	54	48	75	14	55	36	48	
48	75	67	14	73	36	34	57	54	36	73	16	48	57						

$39 - 20 = \square \rightarrow \text{G}$	$99 - 32 = \square \rightarrow \text{R}$	$42 - 8 = \square \rightarrow \text{D}$
$55 - 12 = \square \rightarrow \text{I}$	$52 - 4 = \square \rightarrow \text{S}$	$94 - 19 = \square \rightarrow \text{C}$
$90 - 33 = \square \rightarrow \text{T}$	$71 - 15 = \square \rightarrow \text{W}$	$47 - 20 = \square \rightarrow \text{M}$
$38 - 22 = \square \rightarrow \text{O}$	$76 - 3 = \square \rightarrow \text{P}$	$52 - 38 = \square \rightarrow \text{A}$
$78 - 24 = \square \rightarrow \text{H}$	$78 - 23 = \square \rightarrow \text{L}$	$50 - 14 = \square \rightarrow \text{E}$
$93 - 23 = \square \rightarrow \text{N}$		

Scratch space:

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

The team needed fifty moonberries for halftime snacks but only found thirty. Finding the missing amount gave us the final clue.

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:

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

$2 + \underline{\quad} = 12$

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

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

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

$3 + \underline{\quad} = 7$

$3 + \underline{\quad} = 12$

$7 + \underline{\quad} = 8$

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

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

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

Step 2 - cross out the sentence with each answer:

1. The villain headed the ball into orbit, then charged their battery under the star.
2. The villain slid across the cosmic dust, then wagged a heavy jetpack tail.
3. The villain slammed the ball with a spiked tail, then wagged a heavy jetpack tail.
4. The villain headed the ball into orbit, then boosted away using thrusters.
5. The villain floated upside down to block a shot, then charged their battery under the star.
6. The villain slammed the ball with a spiked tail, then boosted away using thrusters.
7. The villain floated upside down to block a shot, then boosted away using thrusters.
8. The villain slammed the ball with a spiked tail, then left glowing glove marks on the ball.
9. The villain slid across the cosmic dust, then boosted away using thrusters.
10. The villain dashed past the defense like a rocket, then wagged a heavy jetpack tail.
11. The villain dashed past the defense like a rocket, then boosted away using thrusters.
12. The villain floated upside down to block a shot, then left glowing glove marks on the ball.

Answer Key

The Great Moon Cup Mystery

Culprit: Saurus-Son

Tail-Slam Kick · Glow-Glove Mitts · Left-Footed · Smooth Scales · Flashlight Beam

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SUSPECT DOES NOT WEAR A SOLAR BACKPACK"

Round 32 to the nearest ten = 30 (T) · Round 48 to the nearest ten = 50 (B) · Round 297 to the nearest hundred = 300 (C) · Round 667 to the nearest hundred = 700 (K) · Round 538 to the nearest hundred = 500 (H) · Round 61 to the nearest ten = 60 (S) · Round 398 to the nearest hundred = 400 (D) · Round 87 to the nearest ten = 90 (E) · Round 69 to the nearest ten = 70 (P) · Round 551 to the nearest hundred = 600 (N) · Round 80 to the nearest ten = 80 (W) · Round 209 to the nearest hundred = 200 (R) · Round 43 to the nearest ten = 40 (L) · Round 827 to the nearest hundred = 800 (U) · Round 17 to the nearest ten = 20 (A) · Round 896 to the nearest hundred = 900 (O)

Clue 2 (Place value): "THE LEFT FOOT LEAVES A DEEPER CRATER TRACE"

What number has 6 tens and 3 ones? = 63 (T) · What number has 1 ten and 4 ones? = 14 (S) · What number has 5 tens and 0 ones? = 50 (E) · What number has 2 tens and 8 ones? = 28 (L) · What number has 7 tens and 8 ones? = 78 (A) · What number has 4 tens and 3 ones? = 43 (R) · What number has 5 tens and 7 ones? = 57 (V) · What number has 3 tens and 0 ones? = 30 (O) · What number has 3 tens and 5 ones? = 35 (D) · What number has 5 tens and 9 ones? = 59 (C) · What number has 2 tens and 9 ones? = 29 (F) · What number has 3 tens and 4 ones? = 34 (P) · What number has 8 tens and 1 one? = 81 (H)

Clue 3 (Addition): "A BRIGHT FLASHLIGHT BEAM STOPPED THE VILLAIN"

$10 + 21 = 31$ (A) · $35 + 51 = 86$ (E) · $22 + 18 = 40$ (T) · $26 + 45 = 71$ (P) · $29 + 21 = 50$ (F) · $33 + 31 = 64$ (R) · $27 + 38 = 65$ (N) · $16 + 11 = 27$ (L) · $34 + 44 = 78$ (H) · $56 + 40 = 96$ (B) · $60 + 27 = 87$ (D) · $61 + 37 = 98$ (V) · $15 + 37 = 52$ (S) · $28 + 33 = 61$ (I) · $27 + 19 = 46$ (M) · $33 + 39 = 72$ (G) · $30 + 44 = 74$ (O)

Clue 4 (Subtraction): "GLOWING SMOOTH SCALES SCRAPED THE POST"

$39 - 20 = 19$ (G) · $99 - 32 = 67$ (R) · $42 - 8 = 34$ (D) · $55 - 12 = 43$ (I) · $52 - 4 = 48$ (S) · $94 - 19 = 75$ (C) · $90 - 33 = 57$ (T) · $71 - 15 = 56$ (W) · $47 - 20 = 27$ (M) · $38 - 22 = 16$ (O) · $76 - 3 = 73$ (P) · $52 - 38 = 14$ (A) · $78 - 24 = 54$ (H) · $78 - 23 = 55$ (L) · $50 - 14 = 36$ (E) · $93 - 23 = 70$ (N)

Clue 5 (Missing addends): surviving statement is box 8 → Saurus-Son

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