



The Case of the Crumbling Goalposts

Grade 3 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

Oh no! The Sunny Meadow Soccer League's championship game is ruined! Someone has sabotaged the goalposts, making them wobble and fall. Coach Connie needs the best young detectives to figure out which prankster is responsible before the big match.

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 prankster is _____

Possible suspects

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

NAME	SPEED	DRIBBLING SKILL	PLAYER TYPE	JERSEY COLOR	FUMBLE ITEM
Maya	Comet	Sticky Feet	Defender	Blue Jersey	Slippery Cleats
Finn	Rocket	Bounce Pass	Forward	Red Jersey	Lost Ball
Hugo	Blur	Ball Magnet	Forward	Blue Jersey	Slippery Cleats
Will	Comet	Toe Tap	Forward	Blue Jersey	Slippery Cleats
Sam	Comet	Toe Tap	Forward	Blue Jersey	Lost Ball
Jake	Blur	Ball Magnet	Forward	Blue Jersey	Lost Ball
Tessa	Rocket	Sticky Feet	Forward	Red Jersey	Slippery Cleats
Xena	Whirlwind	Toe Tap	Forward	Red Jersey	Winded
Cathy	Whirlwind	Bounce Pass	Forward	Blue Jersey	Lost Ball
Benji	Whirlwind	Heel Kick	Defender	Blue Jersey	Lost Ball
Paul	Rocket	Ball Magnet	Forward	Blue Jersey	Slippery Cleats
Alexia	Flash	Bounce Pass	Defender	Blue Jersey	Lost Ball
Eliza	Comet	Sticky Feet	Forward	Green Jersey	Slippery Cleats
Quinn	Rocket	Bounce Pass	Forward	Green Jersey	Winded
Ivy	Whirlwind	Ball Magnet	Forward	Blue Jersey	Slippery Cleats
Kira	Rocket	Toe Tap	Forward	Red Jersey	Winded
Ulysses	Rocket	Bounce Pass	Forward	Green Jersey	Slippery Cleats
David	Flash	Sticky Feet	Defender	Green Jersey	Slippery Cleats
Riley	Whirlwind	Heel Kick	Forward	Blue Jersey	Slippery Cleats
Olivia	Whirlwind	Heel Kick	Forward	Blue Jersey	Lost Ball
Violet	Flash	Toe Tap	Defender	Red Jersey	Slippery Cleats

CLUE 1

Rounding

Coach Connie checked the game clock readings after the goalposts were damaged. The display only showed rounded numbers, making it hard to tell the exact time the prank happened.

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9000	40	8000	5000	600	80	7000	800	3000	9000	8000	600	500	80	3000	7000	700	9000		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6000	3000	2000	7000	70	9000	40	8000	20	80	50	50	400	80	70	7000	8000	9000		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3000	800	2000	50	50	900	6000	600	2000	7000	70	9000	40	8000						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3000	80	20	700	9000	80	70	8000												

Round 8,577 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>	Round 53 to the nearest ten	<input type="checkbox"/>	<input type="checkbox"/>	Round 7,856 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>
Round 6,498 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>	Round 72 to the nearest ten	<input type="checkbox"/>	<input type="checkbox"/>	Round 79 to the nearest ten	<input type="checkbox"/>	<input type="checkbox"/>
Round 880 to the nearest hundred	<input type="checkbox"/>	<input type="checkbox"/>	Round 530 to the nearest hundred	<input type="checkbox"/>	<input type="checkbox"/>	Round 1,985 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>
Round 2,782 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>	Round 7,218 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>	Round 5,368 to the nearest thousand	<input type="checkbox"/>	<input type="checkbox"/>
Round 764 to the nearest hundred	<input type="checkbox"/>	<input type="checkbox"/>	Round 357 to the nearest hundred	<input type="checkbox"/>	<input type="checkbox"/>	Round 36 to the nearest ten	<input type="checkbox"/>	<input type="checkbox"/>
Round 734 to the nearest hundred	<input type="checkbox"/>	<input type="checkbox"/>	Round 20 to the nearest ten	<input type="checkbox"/>	<input type="checkbox"/>	Round 559 to the nearest hundred	<input type="checkbox"/>	<input type="checkbox"/>

Scratch space:

CLUE 2

Addition

To get the goalposts back up, the groundskeeper counted all the spare parts needed. He tallied them up to see if he had enough.

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
515	393	882	284	941	352	622	842	386	515	882	941	988	352	386	352

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
517	975	941	988	352	941	783

$332 + 183 =$	<input type="text"/>	<input type="text" value="T"/>	$215 + 171 =$	<input type="text"/>	<input type="text" value="S"/>	$235 + 387 =$	<input type="text"/>	<input type="text" value="N"/>
$126 + 267 =$	<input type="text"/>	<input type="text" value="H"/>	$301 + 640 =$	<input type="text"/>	<input type="text" value="R"/>	$579 + 263 =$	<input type="text"/>	<input type="text" value="K"/>
$369 + 414 =$	<input type="text"/>	<input type="text" value="D"/>	$85 + 199 =$	<input type="text"/>	<input type="text" value="P"/>	$154 + 198 =$	<input type="text"/>	<input type="text" value="A"/>
$405 + 477 =$	<input type="text"/>	<input type="text" value="E"/>	$668 + 320 =$	<input type="text"/>	<input type="text" value="W"/>	$607 + 368 =$	<input type="text"/>	<input type="text" value="O"/>
$302 + 215 =$	<input type="text"/>	<input type="text" value="F"/>						

Scratch space:

CLUE 3

Subtraction

The prankster had to quickly hide the tools they used. They had to figure out how many fewer tools they had after stuffing them into their bag.

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
750	369	477	150	621	195	448	151	102	750	477	621	614	621	786	150	150	477	614

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>			
750	369	477	102	675	154	150	150	477	621	522	116	675	477	195	750	102

878 - 128 =	<input type="text"/>	<input type="text" value="T"/>	881 - 206 =	<input type="text"/>	<input type="text" value="L"/>	660 - 212 =	<input type="text"/>	<input type="text" value="N"/>
870 - 84 =	<input type="text"/>	<input type="text" value="O"/>	327 - 173 =	<input type="text"/>	<input type="text" value="I"/>	524 - 329 =	<input type="text"/>	<input type="text" value="A"/>
324 - 222 =	<input type="text"/>	<input type="text" value="S"/>	1004 - 390 =	<input type="text"/>	<input type="text" value="D"/>	256 - 106 =	<input type="text"/>	<input type="text" value="P"/>
448 - 79 =	<input type="text"/>	<input type="text" value="H"/>	750 - 129 =	<input type="text"/>	<input type="text" value="R"/>	508 - 31 =	<input type="text"/>	<input type="text" value="E"/>
427 - 311 =	<input type="text"/>	<input type="text" value="C"/>	300 - 149 =	<input type="text"/>	<input type="text" value="K"/>	911 - 389 =	<input type="text"/>	<input type="text" value="Y"/>

Scratch space:

CLUE 4

Multiplication facts (1-12)

The team manager was organizing the extra soccer balls. She arranged them in neat rows to see how many there were in total.

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	36	10	96	20	15	32	18	2	5	10	20	7	15	2

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
7	10	15	20	49	32	28	5	36	10	100	44	11	10	4	10	20	2	10	70

$1 \times 5 =$	<input type="text"/>	<input type="text" value="T"/>	$10 \times 10 =$	<input type="text"/>	<input type="text" value="B"/>	$3 \times 6 =$	<input type="text"/>	<input type="text" value="K"/>
$2 \times 1 =$	<input type="text"/>	<input type="text" value="S"/>	$11 \times 4 =$	<input type="text"/>	<input type="text" value="L"/>	$12 \times 8 =$	<input type="text"/>	<input type="text" value="P"/>
$7 \times 7 =$	<input type="text"/>	<input type="text" value="I"/>	$11 \times 1 =$	<input type="text"/>	<input type="text" value="U"/>	$12 \times 3 =$	<input type="text"/>	<input type="text" value="H"/>
$4 \times 8 =$	<input type="text"/>	<input type="text" value="N"/>	$1 \times 10 =$	<input type="text"/>	<input type="text" value="E"/>	$7 \times 4 =$	<input type="text"/>	<input type="text" value="G"/>
$3 \times 5 =$	<input type="text"/>	<input type="text" value="A"/>	$7 \times 1 =$	<input type="text"/>	<input type="text" value="W"/>	$2 \times 10 =$	<input type="text"/>	<input type="text" value="R"/>
$7 \times 10 =$	<input type="text"/>	<input type="text" value="Y"/>	$1 \times 4 =$	<input type="text"/>	<input type="text" value="J"/>			

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

After the prank, the prankster tried to split the remaining snacks with their friends. They wanted to make sure everyone got an equal share.

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:

$28 \div 7 = \boxed{}$

$2 \div 1 = \boxed{}$

$132 \div 11 = \boxed{}$

$132 \div 12 = \boxed{}$

$21 \div 3 = \boxed{}$

$25 \div 5 = \boxed{}$

$9 \div 3 = \boxed{}$

$54 \div 6 = \boxed{}$

$56 \div 7 = \boxed{}$

$10 \div 1 = \boxed{}$

$42 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain dashed, then passed the ball.
2. The villain zoomed, then shot the ball.
3. The villain zoomed, then dribbled the ball.
4. The villain bolted, then passed the ball.
5. The villain dashed, then shot the ball.
6. The villain scampered, then dribbled the ball.
7. The villain dashed, then kicked the ball.
8. The villain zoomed, then passed the ball.
9. The villain bolted, then trapped the ball.
10. The villain dashed, then dribbled the ball.
11. The villain sprinted, then shot the ball.
12. The villain scampered, then passed the ball.

Answer Key

The Case of the Crumbling Goalposts

Culprit: Paul

Rocket · Ball Magnet · Forward · Blue Jersey · Slippery Cleats

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE PRANKSTER WAS NOT USING THE BALL MAGNET SKILL DURING THE SABOTAGE"

Round 8,577 to the nearest thousand = 9000 (T) · Round 53 to the nearest ten = 50 (L) · Round 7,856 to the nearest thousand = 8000 (E) · Round 6,498 to the nearest thousand = 6000 (U) · Round 72 to the nearest ten = 70 (G) · Round 79 to the nearest ten = 80 (A) · Round 880 to the nearest hundred = 900 (D) · Round 530 to the nearest hundred = 500 (W) · Round 1,985 to the nearest thousand = 2000 (I) · Round 2,782 to the nearest thousand = 3000 (S) · Round 7,218 to the nearest thousand = 7000 (N) · Round 5,368 to the nearest thousand = 5000 (P) · Round 764 to the nearest hundred = 800 (K) · Round 357 to the nearest hundred = 400 (M) · Round 36 to the nearest ten = 40 (H) · Round 734 to the nearest hundred = 700 (O) · Round 20 to the nearest ten = 20 (B) · Round 559 to the nearest hundred = 600 (R)

Clue 2 (Addition): "THE PRANKSTER WAS A FORWARD"

$332 + 183 = 515$ (T) · $215 + 171 = 386$ (S) · $235 + 387 = 622$ (N) · $126 + 267 = 393$ (H) · $301 + 640 = 941$ (R) · $579 + 263 = 842$ (K) · $369 + 414 = 783$ (D) · $85 + 199 = 284$ (P) · $154 + 198 = 352$ (A) · $405 + 477 = 882$ (E) · $668 + 320 = 988$ (W) · $607 + 368 = 975$ (O) · $302 + 215 = 517$ (F)

Clue 3 (Subtraction): "THE PRANKSTER DROPPED THE SLIPPERY CLEATS"

$878 - 128 = 750$ (T) · $881 - 206 = 675$ (L) · $660 - 212 = 448$ (N) · $870 - 84 = 786$ (O) · $327 - 173 = 154$ (I) · $524 - 329 = 195$ (A) · $324 - 222 = 102$ (S) · $1004 - 390 = 614$ (D) · $256 - 106 = 150$ (P) · $448 - 79 = 369$ (H) · $750 - 129 = 621$ (R) · $508 - 31 = 477$ (E) · $427 - 311 = 116$ (C) · $300 - 149 = 151$ (K) · $911 - 389 = 522$ (Y)

Clue 4 (Multiplication facts (1-12)): "THE PRANKSTER WAS WEARING THE BLUE JERSEY"

$1 \times 5 = 5$ (T) · $10 \times 10 = 100$ (B) · $3 \times 6 = 18$ (K) · $2 \times 1 = 2$ (S) · $11 \times 4 = 44$ (L) · $12 \times 8 = 96$ (P) · $7 \times 7 = 49$ (I) · $11 \times 1 = 11$ (U) · $12 \times 3 = 36$ (H) · $4 \times 8 = 32$ (N) · $1 \times 10 = 10$ (E) · $7 \times 4 = 28$ (G) · $3 \times 5 = 15$ (A) · $7 \times 1 = 7$ (W) · $2 \times 10 = 20$ (R) · $7 \times 10 = 70$ (Y) · $1 \times 4 = 4$ (J)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Paul

$28 \div 7 = 4$ · $2 \div 1 = 2$ · $132 \div 11 = 12$ · $132 \div 12 = 11$ · $21 \div 3 = 7$ · $25 \div 5 = 5$ · $9 \div 3 = 3$ · $54 \div 6 = 9$ · $56 \div 7 = 8$ · $10 \div 1 = 10$ · $42 \div 7 = 6$