

The Big Soccer Snooper

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

Detective: _____ Date: _____

Oh no! The big gold cup is gone from the locker room. The championship game starts very soon. We need to find the sneaky soccer player who took it. Look for clues on the grassy pitch!

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 The Soccer Sneak is _____

Possible suspects

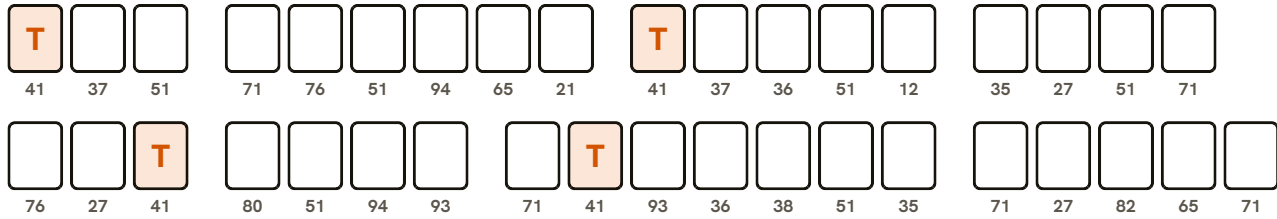
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	LUCKY GEAR	KICKING FOOT	HAIR COLOR	FEAR
Alex	Power Pass	Golden Whistle	Right Footed	Bright Orange	Water Puddles
Sam	Power Pass	Striped Socks	Left Footed	Jet Black	Squeaky Grass
Ben	Turbo Sprint	Spiked Gloves	Left Footed	Bright Orange	Squeaky Grass
Mia	Super Kick	Spiked Gloves	Right Footed	Jet Black	Squeaky Grass
Rex	Safe Catch	Shiny Cleats	Left Footed	Neon Green	Water Puddles
Tom	Super Kick	Golden Whistle	Left Footed	Jet Black	Squeaky Grass
Amy	Turbo Sprint	Striped Socks	Right Footed	Bright Orange	Loud Whistles
Ted	Mega Header	Neon Headband	Left Footed	Bright Orange	Loud Whistles
Jan	Power Pass	Golden Whistle	Left Footed	Jet Black	Squeaky Grass
Roy	Safe Catch	Spiked Gloves	Left Footed	Jet Black	Loud Whistles
Dan	Turbo Sprint	Golden Whistle	Left Footed	Neon Green	Squeaky Grass
Kai	Turbo Sprint	Golden Whistle	Left Footed	Jet Black	Squeaky Grass
Jay	Power Pass	Neon Headband	Right Footed	Jet Black	Water Puddles
Kim	Mega Header	Shiny Cleats	Right Footed	Jet Black	Loud Whistles
Tim	Safe Catch	Spiked Gloves	Right Footed	Bright Orange	Loud Whistles
Eva	Super Kick	Shiny Cleats	Left Footed	Jet Black	Squeaky Grass
Zoe	Mega Header	Striped Socks	Right Footed	Neon Green	Water Puddles
Ali	Power Pass	Neon Headband	Left Footed	Bright Orange	Squeaky Grass
Ned	Safe Catch	Spiked Gloves	Right Footed	Bright Orange	Squeaky Grass
Leo	Super Kick	Golden Whistle	Left Footed	Jet Black	Water Puddles
Abby	Mega Header	Shiny Cleats	Left Footed	Neon Green	Squeaky Grass

CLUE 1 Place value

The electronic scoreboard is broken. It only shows tens and ones blocks now. Count the place value blocks to see our first clue.

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



What number has 4 tens and 1 one? → **T**

What number has 8 tens and 0 ones? → **W**

What number has 3 tens and 7 ones? → **H**

What number has 2 tens and 7 ones? → **O**

What number has 6 tens and 5 ones? → **K**

What number has 7 tens and 6 ones? → **N**

What number has 9 tens and 3 ones? → **R**

What number has 1 ten and 2 ones? → **F**

What number has 3 tens and 8 ones? → **P**

What number has 7 tens and 1 one? → **S**

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

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

What number has 9 tens and 4 ones? → **A**

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

What number has 2 tens and 1 one? → **Y**

What number has 5 tens and 1 one? → **E**

Scratch space:

CLUE 2 **Addition**

We found two piles of practice cones by the goal. Let us add the piles together to find the next clue.

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

A 2x10 grid of boxes. The top row contains the following sequence: 'T' (orange), empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty. The bottom row contains the following sequence: 'T' (orange), empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty, empty. The numbers below the boxes are: Row 1: 47, 23, 36, 30, 61, 28, 30, 52, 70, 85, 80, 70, 32, 36, 52, 61, 47, 23. Row 2: 47, 23, 36, 58, 36, 37, 47, 37, 69, 69, 47, 69, 56, 58, 25.

$$25 + 22 = \boxed{} \rightarrow \boxed{\mathbf{T}}$$

$16 + 9 = \boxed{} \rightarrow \boxed{\text{Y}}$

$33 + 25 = \boxed{} \rightarrow \boxed{\text{L}}$

$13 + 23 = \boxed{} \rightarrow \boxed{\text{E}}$

$16 + 14 = \boxed{} \rightarrow \boxed{\text{K}}$

$38 + 23 = \boxed{} \rightarrow \boxed{}$

$$31 + 54 = \boxed{} \rightarrow \boxed{\text{S}}$$

$19 + 9 = \boxed{} \rightarrow \boxed{\text{C}}$

$23 + 9 = \boxed{} \rightarrow \boxed{\text{D}}$

$45 + 25 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$12 + 11 = \boxed{} \rightarrow \boxed{\text{H}}$$

$37 + 43 = \boxed{} \rightarrow \boxed{\text{M}}$

$37 + 32 = \boxed{} \rightarrow \boxed{0}$

$$27 + 25 = \boxed{} \rightarrow \boxed{\text{W}}$$

$17 + 20 = \boxed{} \rightarrow \boxed{\text{F}}$

$35 + 21 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3

Subtraction

The team coach had some soccer balls in a big net. Some balls are gone now. Subtract the count to get a clue.

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

T			T														
38	79	69	38	79	39	69	58	16	87	39	77	77	69	12	15	50	

16	26	34	69	37	59	52	21	42	37	16	16

$52 - 14 = \square \rightarrow \boxed{\text{T}}$

$16 - 4 = \square \rightarrow \boxed{\text{D}}$

$45 - 30 = \square \rightarrow \boxed{\text{O}}$

$85 - 27 = \square \rightarrow \boxed{\text{F}}$

$40 - 19 = \square \rightarrow \boxed{\text{G}}$

$99 - 40 = \square \rightarrow \boxed{\text{K}}$

$117 - 30 = \square \rightarrow \boxed{\text{L}}$

$41 - 15 = \square \rightarrow \boxed{\text{Q}}$

$81 - 29 = \square \rightarrow \boxed{\text{Y}}$

$52 - 10 = \square \rightarrow \boxed{\text{R}}$

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

$105 - 26 = \square \rightarrow \boxed{\text{H}}$

$62 - 28 = \square \rightarrow \boxed{\text{U}}$

$43 - 6 = \square \rightarrow \boxed{\text{A}}$

$64 - 25 = \square \rightarrow \boxed{\text{I}}$

$53 - 3 = \square \rightarrow \boxed{\text{N}}$

$82 - 13 = \square \rightarrow \boxed{\text{E}}$

$43 - 27 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 4

Look at the dirty cleats on the field. They left a line of prints. Skip count by twos on the turf to read this clue.

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

6 130 26 90 36 35 110 70 36 8 65 9 22 26 6 40 24 33 90 25 130 33 80 12

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **J**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **R**

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, , 36, 39 → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 →

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 → **N**

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

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **B**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 → **F**

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

Scratch space:

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

We need a full rack of juice boxes for the team. We only have a few. Find the missing number to get 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:

$2 + \underline{\quad} = 5$

$7 + \underline{\quad} = 18$

$8 + \underline{\quad} = 20$

$5 + \underline{\quad} = 14$

$4 + \underline{\quad} = 10$

$7 + \underline{\quad} = 12$

$6 + \underline{\quad} = 8$

$5 + \underline{\quad} = 12$

$10 + \underline{\quad} = 18$

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

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

Step 2 - cross out the sentence with each answer:

1. The villain stops the fast shot, then swipes the shiny gold medal.
2. The villain dribbles past the goalie, then grabs the referee whistle.
3. The villain heads the ball high, then hides the lucky game ball.
4. The villain does a trick kick, then hides the lucky game ball.
5. The villain runs like the wind, then grabs the referee whistle.
6. The villain runs like the wind, then takes the team snack box.
7. The villain runs like the wind, then swipes the shiny gold medal.
8. The villain dribbles past the goalie, then snatches the shiny championship cup.
9. The villain stops the fast shot, then takes the team snack box.
10. The villain heads the ball high, then swipes the shiny gold medal.
11. The villain dribbles past the goalie, then hides the lucky game ball.
12. The villain does a trick kick, then snatches the shiny championship cup.

Answer Key

The Big Soccer Snooper

Culprit: Tom

Super Kick · Golden Whistle · Left Footed · Jet Black · Squeaky Grass

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY THIEF DOES NOT WEAR STRIPED SOCKS"

What number has 4 tens and 1 one? = 41 (T) · What number has 8 tens and 0 ones? = 80 (W) · What number has 3 tens and 7 ones? = 37 (H) · What number has 2 tens and 7 ones? = 27 (O) · What number has 6 tens and 5 ones? = 65 (K) · What number has 7 tens and 6 ones? = 76 (N) · What number has 9 tens and 3 ones? = 93 (R) · What number has 1 ten and 2 ones? = 12 (F) · What number has 3 tens and 8 ones? = 38 (P) · What number has 7 tens and 1 one? = 71 (S) · What number has 8 tens and 2 ones? = 82 (C) · What number has 3 tens and 6 ones? = 36 (I) · What number has 9 tens and 4 ones? = 94 (A) · What number has 3 tens and 5 ones? = 35 (D) · What number has 2 tens and 1 one? = 21 (Y) · What number has 5 tens and 1 one? = 51 (E)

Clue 2 (Addition): "THE KICK WAS MADE WITH THE LEFT FOOT ONLY"

$25 + 22 = 47$ (T) · $16 + 9 = 25$ (Y) · $33 + 25 = 58$ (L) · $13 + 23 = 36$ (E) · $16 + 14 = 30$ (K) · $38 + 23 = 61$ (I) · $31 + 54 = 85$ (S) · $19 + 9 = 28$ (C) · $23 + 9 = 32$ (D) · $45 + 25 = 70$ (A) · $12 + 11 = 23$ (H) · $37 + 43 = 80$ (M) · $37 + 32 = 69$ (O) · $27 + 25 = 52$ (W) · $17 + 20 = 37$ (F) · $35 + 21 = 56$ (N)

Clue 3 (Subtraction): "THE THIEF SLIPPED ON SQUEAKY GRASS"

$52 - 14 = 38$ (T) · $16 - 4 = 12$ (D) · $45 - 30 = 15$ (O) · $85 - 27 = 58$ (F) · $40 - 19 = 21$ (G) · $99 - 40 = 59$ (K) · $117 - 30 = 87$ (L) · $41 - 15 = 26$ (Q) · $81 - 29 = 52$ (Y) · $52 - 10 = 42$ (R) · $117 - 40 = 77$ (P) · $105 - 26 = 79$ (H) · $62 - 28 = 34$ (U) · $43 - 6 = 37$ (A) · $64 - 25 = 39$ (I) · $53 - 3 = 50$ (N) · $82 - 13 = 69$ (E) · $43 - 27 = 16$ (S)

Clue 4 (Skip counting): "THE COPS FOUND JET BLACK HAIR"

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (J) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (L) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (C) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (K) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (U)

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

$2 + \underline{\quad} = 5 = 3$ · $7 + \underline{\quad} = 18 = 11$ · $8 + \underline{\quad} = 20 = 12$ · $5 + \underline{\quad} = 14 = 9$ · $4 + \underline{\quad} = 10 = 6$ · $7 + \underline{\quad} = 12 = 5$ · $6 + \underline{\quad} = 8 = 2$ · $5 + \underline{\quad} = 12 = 7$ · $10 + \underline{\quad} = 18 = 8$ · $7 + \underline{\quad} = 17 = 10$ · $6 + \underline{\quad} = 7 = 1$