The Great Stadium Whistle Mystery

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

Detective: _____ **Date:** _____

Someone took the shiny championship trophy right off the field before kickoff! Coach Leo needs your help to catch the sneaky player.

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 sneaky player is _____

Possible suspects

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

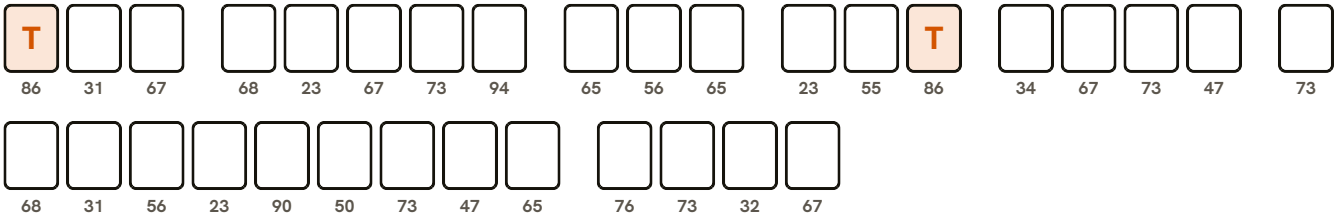
NAME	KICK STYLE	GEAR	DOMINANT FOOT	HEADBAND COLOR	WEAKNESS
Pedri	Rainbow Flick	Shinguard Cape	Left Footed	Red Headband	Loud Whistles
Kylian Mbappe	Bicycle Kick	Goalie Mask	Left Footed	Blue Headband	Yellow Cards
Lamine Yamal	Bicycle Kick	Padded Gloves	Left Footed	Gold Headband	Yellow Cards
Sam Kerr	Header Drop	Captain Band	Left Footed	Red Headband	Yellow Cards
Gavi	Curve Ball	Captain Band	Left Footed	Blue Headband	Yellow Cards
Megan Rapinoe	Curve Ball	Captain Band	Right Footed	Red Headband	Yellow Cards
Mohamed Salah	Rainbow Flick	Goalie Mask	Right Footed	Gold Headband	Yellow Cards
Declan Rice	Header Drop	Captain Band	Right Footed	Gold Headband	Yellow Cards
Virgil van Dijk	Bicycle Kick	Goalie Mask	Right Footed	Red Headband	Yellow Cards
Son Heungmin	Power Blast	Padded Gloves	Right Footed	Red Headband	Slippery Grass
Erling Haaland	Curve Ball	Neon Cleats	Right Footed	Blue Headband	Loud Whistles
Jude Bellingham	Rainbow Flick	Shinguard Cape	Right Footed	Red Headband	Yellow Cards
Cole Palmer	Bicycle Kick	Captain Band	Right Footed	Blue Headband	Yellow Cards
Phil Foden	Header Drop	Neon Cleats	Right Footed	Red Headband	Yellow Cards
Alex Morgan	Power Blast	Neon Cleats	Right Footed	Gold Headband	Loud Whistles
Marcus Rashford	Bicycle Kick	Goalie Mask	Left Footed	Red Headband	Slippery Grass
Alisson Becker	Power Blast	Captain Band	Left Footed	Red Headband	Loud Whistles
Rodri	Curve Ball	Goalie Mask	Left Footed	Gold Headband	Yellow Cards
Lionel Messi	Bicycle Kick	Neon Cleats	Right Footed	Red Headband	Yellow Cards
Jack Grealish	Curve Ball	Shinguard Cape	Left Footed	Blue Headband	Loud Whistles
Kevin De Bruyne	Bicycle Kick	Captain Band	Right Footed	Red Headband	Loud Whistles

make your own at mathcrackers.com

CLUE 1 Addition

Count all the practice cones on the field to find the first clue.

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



50 + 36 = ☐ → T	38 + 29 = ☐ → E	31 + 63 = ☐ → K
23 + 42 = ☐ → D	11 + 21 = ☐ → P	24 + 26 = ☐ → U
20 + 27 = ☐ → R	27 + 41 = ☐ → S	24 + 49 = ☐ → A
58 + 32 = ☐ → G	21 + 10 = ☐ → H	24 + 32 = ☐ → I
33 + 22 = ☐ → O	22 + 54 = ☐ → C	17 + 17 = ☐ → W
17 + 6 = ☐ → N		

Scratch space:

CLUE 2 Subtraction

Take away the popped soccer balls from the pile to solve this clue.

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

T																			T
87	56	26	49	55	26	16	38	13	16	49	68	54	48	56	87				

			T		
46	81	81	87	26	70

109 - 22 = ☐ → T

35 - 9 = ☐ → E

43 - 30 = ☐ → W

56 - 2 = ☐ → I

70 - 2 = ☐ → R

94 - 13 = ☐ → O

75 - 26 = ☐ → S

54 - 6 = ☐ → G

72 - 26 = ☐ → F

54 - 38 = ☐ → A

43 - 5 = ☐ → K

84 - 28 = ☐ → H

106 - 36 = ☐ → D

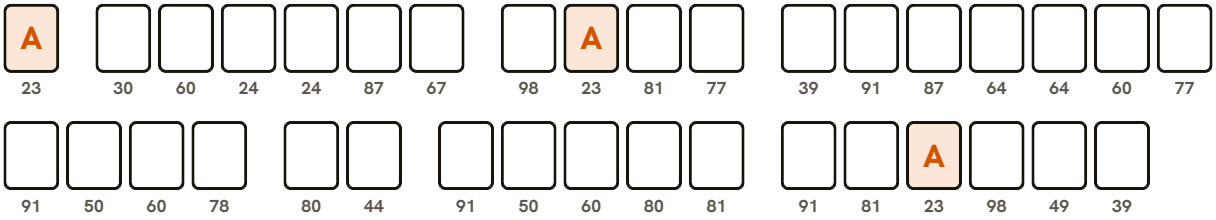
72 - 17 = ☐ → N

Scratch space:

CLUE 3 Place value

Look at the tens and ones on the stadium scoreboard.

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



What number has 2 tens and 3 ones? ☐ → A

What number has 8 tens and 7 ones? ☐ → O

What number has 5 tens and 0 ones? ☐ → H

What number has 7 tens and 7 ones? ☐ → D

What number has 6 tens and 0 ones? ☐ → E

What number has 6 tens and 4 ones? ☐ → P

What number has 3 tens and 9 ones? ☐ → S

What number has 2 tens and 4 ones? ☐ → L

What number has 8 tens and 1 one? ☐ → R

What number has 7 tens and 8 ones? ☐ → M

What number has 6 tens and 7 ones? ☐ → W

What number has 3 tens and 0 ones? ☐ → Y

What number has 8 tens and 0 ones? ☐ → I

What number has 4 tens and 9 ones? ☐ → K

What number has 9 tens and 1 one? ☐ → T

What number has 4 tens and 4 ones? ☐ → N

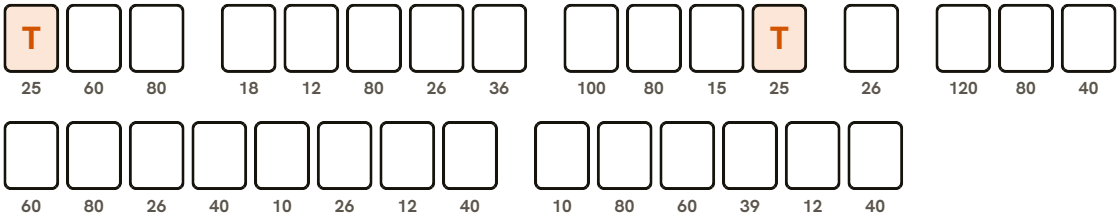
What number has 9 tens and 8 ones? ☐ → C

Scratch space:

CLUE 4 Skip counting

Count by twos along the field lines to track the footprints.

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, ___, 30, 35 ☐ → T

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 ☐ → H

Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 ☐ → F

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 ☐ → I

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → L

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 ☐ → D

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → B

Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 ☐ → N

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 ☐ → E

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 ☐ → S

Scratch space:

CLUE 5 Missing addends - the last clue

Find the missing number of water bottles to open the locker.

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:

5 + ___ = 13 ☐	8 + ___ = 10 ☐	7 + ___ = 19 ☐	7 + ___ = 18 ☐
7 + ___ = 10 ☐	2 + ___ = 7 ☐	6 + ___ = 10 ☐	3 + ___ = 10 ☐
2 + ___ = 12 ☐	8 + ___ = 9 ☐	7 + ___ = 16 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain fired a power blast, then put on neon cleats.
2. The villain used a bicycle kick, then put on neon cleats.
3. The villain fired a power blast, then strapped on padded gloves.
4. The villain fired a power blast, then wrapped on a captain band.
5. The villain used a bicycle kick, then wore a shinguard cape.
6. The villain used a bicycle kick, then pulled on a goalie mask.
7. The villain did a header drop, then pulled on a goalie mask.
8. The villain did a header drop, then put on neon cleats.
9. The villain curved the soccer ball, then wore a shinguard cape.
10. The villain curved the soccer ball, then put on neon cleats.
11. The villain flipped a rainbow flick, then wore a shinguard cape.
12. The villain curved the soccer ball, then wrapped on a captain band.

TEACHER / PARENT

Answer Key

The Great Stadium Whistle Mystery

Culprit: Virgil van Dijk

Bicycle Kick · Goalie Mask · Right Footed · Red Headband · Yellow Cards

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAK DID NOT WEAR A SHINGUARD CAPE"

50 + 36 = 86 (T) · 38 + 29 = 67 (E) · 31 + 63 = 94 (K) · 23 + 42 = 65 (D) · 11 + 21 = 32 (P) · 24 + 26 = 50 (U) · 20 + 27 = 47 (R) · 27 + 41 = 68 (S) · 24 + 49 = 73 (A) · 58 + 32 = 90 (G) · 21 + 10 = 31 (H) · 24 + 32 = 56 (I) · 33 + 22 = 55 (O) · 22 + 54 = 76 (C) · 17 + 17 = 34 (W) · 17 + 6 = 23 (N)

Clue 2 (Subtraction): "THE SNEAK WAS RIGHT FOOTED"

109 - 22 = 87 (T) · 35 - 9 = 26 (E) · 43 - 30 = 13 (W) · 56 - 2 = 54 (I) · 70 - 2 = 68 (R) · 94 - 13 = 81 (O) · 75 - 26 = 49 (S) · 54 - 6 = 48 (G) · 72 - 26 = 46 (F) · 54 - 38 = 16 (A) · 43 - 5 = 38 (K) · 84 - 28 = 56 (H) · 106 - 36 = 70 (D) · 72 - 17 = 55 (N)

Clue 3 (Place value): "A YELLOW CARD STOPPED THEM IN THEIR TRACKS"

What number has 2 tens and 3 ones? = 23 (A) · What number has 7 tens and 8 ones? = 78 (M) · What number has 8 tens and 7 ones? = 87 (O) · What number has 6 tens and 7 ones? = 67 (W) · What number has 5 tens and 0 ones? = 50 (H) · What number has 3 tens and 0 ones? = 30 (Y) · What number has 7 tens and 7 ones? = 77 (D) · What number has 8 tens and 0 ones? = 80 (I) · What number has 6 tens and 0 ones? = 60 (E) · What number has 4 tens and 9 ones? = 49 (K) · What number has 6 tens and 4 ones? = 64 (P) · What number has 9 tens and 1 one? = 91 (T) · What number has 3 tens and 9 ones? = 39 (S) · What number has 4 tens and 4 ones? = 44 (N) · What number has 2 tens and 4 ones? = 24 (L) · What number has 9 tens and 8 ones? = 98 (C) · What number has 8 tens and 1 one? = 81 (R)

Clue 4 (Skip counting): "THE SNEAK LEFT A RED HEADBAND BEHIND"

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

Clue 5 (Missing addends): surviving statement is box 6 → Virgil van Dijk

5 + ___ = 13 = 8 · 8 + ___ = 10 = 2 · 7 + ___ = 19 = 12 · 7 + ___ = 18 = 11 · 7 + ___ = 10 = 3 · 2 + ___ = 7 = 5 · 6 + ___ = 10 = 4 · 3 + ___ = 10 = 7 · 2 + ___ = 12 = 10 · 8 + ___ = 9 = 1 · 7 + ___ = 16 = 9