



The Great Golden Trophy Mystery

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

Detective: _____ Date: _____

The championship game starts soon! But someone stole the Golden Trophy right off the shelf. We must look for clues around the court to catch 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 the Ball Bandit is _____

Possible suspects

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

NAME	TRICK MOVE	LUCKY GEAR	SHOOTING HAND	WACKY HAIR	FEAR
Breanna	half court shot	glow shoes	right handed shooter	sparkly silver hair	heavy basketball
Candace	no look pass	springy socks	right handed shooter	bright pink hair	squeaky floor
Muggsy	half court shot	squeaky shoes	right handed shooter	bright pink hair	squeaky floor
Sue	spin move	grip pads	right handed shooter	bright pink hair	squeaky floor
Caitlin	super dunk	glow shoes	right handed shooter	neon green hair	squeaky floor
Steph	spin move	grip pads	right handed shooter	sparkly silver hair	squeaky floor
Dirk	spin move	glow shoes	left handed shooter	bright pink hair	heavy basketball
Shaq	super dunk	squeaky shoes	left handed shooter	bright pink hair	squeaky floor
Bird	half court shot	springy socks	right handed shooter	bright pink hair	squeaky floor
Jordan	no look pass	squeaky shoes	right handed shooter	bright pink hair	heavy basketball
Angel	giant block	grip pads	right handed shooter	neon green hair	squeaky floor
Diana	spin move	squeaky shoes	right handed shooter	bright pink hair	shiny whistle
Magic	giant block	grip pads	right handed shooter	neon green hair	shiny whistle
Reggie	spin move	high tops	right handed shooter	neon green hair	squeaky floor
Kyrie	half court shot	glow shoes	right handed shooter	neon green hair	squeaky floor
Kobe	half court shot	springy socks	right handed shooter	sparkly silver hair	squeaky floor
Yao	half court shot	squeaky shoes	left handed shooter	bright pink hair	shiny whistle
Spud	no look pass	high tops	left handed shooter	neon green hair	shiny whistle
Luka	spin move	glow shoes	right handed shooter	bright pink hair	squeaky floor
Durant	half court shot	glow shoes	left handed shooter	sparkly silver hair	squeaky floor
Sabrina	no look pass	glow shoes	left handed shooter	bright pink hair	heavy basketball

CLUE 1 Addition

Coach added the old team basketballs to the new ones to find the total count.

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: a box with 'T', three empty boxes, a box with 'T', and six empty boxes. The bottom row contains the following sequence: two empty boxes, a box with 'T', and seven empty boxes. Below each box is a number. The numbers in the top row are: 9, 13, 15, 17, 18, 15, 20, 8, 3, 19, 20, 18, 14, 5, 9, 14, 6, 15, 17. The numbers in the bottom row are: 18, 6, 9, 2, 15, 20, 11, 16, 4, 6, 2, 17, 13, 6, 15, 17.

$3 + 6 = \boxed{} \rightarrow \boxed{\mathbf{T}}$

$4 + 7 = \boxed{} \rightarrow \boxed{\text{R}}$

$3 + 1 = \boxed{} \rightarrow \boxed{\text{L}}$

$7 + 10 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$10 + 5 = \boxed{} \rightarrow \boxed{\text{E}}$

$$4 + 4 = \boxed{} \rightarrow \boxed{\text{K}}$$

$1 + 4 = \boxed{} \rightarrow \boxed{1}$

$$1 + 1 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$5 + 9 = \boxed{} \rightarrow \boxed{\text{D}}$

$1 + 2 = \boxed{} \rightarrow \boxed{\text{Y}}$

$9 + 9 = \boxed{} \rightarrow \boxed{\text{N}}$

$13 + 7 = \boxed{} \rightarrow \boxed{\text{A}}$

$$1 + 5 = \boxed{} \rightarrow \boxed{0}$$

$10 + 6 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$11 + 8 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$3 + 10 = \boxed{} \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 2

Subtraction

We had a big stack of jerseys but some players took theirs. We subtracted to see what was left.

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

T									T								T
18	3	6	15	11	10	17	4	18	4	2	11	9	4	5	3	18	

										T		
3	11	10	17	6	17	2	3	12	12	18	6	9

$19 - 1 = \square \rightarrow \boxed{\text{T}}$

$18 - 9 = \square \rightarrow \boxed{\text{R}}$

$7 - 3 = \square \rightarrow \boxed{\text{I}}$

$8 - 5 = \square \rightarrow \boxed{\text{H}}$

$19 - 2 = \square \rightarrow \boxed{\text{D}}$

$14 - 8 = \square \rightarrow \boxed{\text{E}}$

$3 - 1 = \square \rightarrow \boxed{\text{S}}$

$16 - 1 = \square \rightarrow \boxed{\text{B}}$

$17 - 7 = \square \rightarrow \boxed{\text{N}}$

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

$16 - 5 = \square \rightarrow \boxed{\text{A}}$

$11 - 6 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 3

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

21 26 20 12 100 27 65 45 21 39 100 27 30 39 36 40 21 26 20

16 33 90 20 100 110 9 30 55 36 36 39

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **0**

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

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

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

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

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

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

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 → **F**

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

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

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

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

Scratch space:

CLUE 4 Place value

The scoreboard shows tens and ones for the home team score.

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

T									T									T
17	46	54	37	16	48	47	28	17	46	16	22	37	42	28	33	46	17	

90	28	48	52	46	16	28	42

What number has 1 ten and 7 ones? → **T**

What number has 4 tens and 6 ones? → **H**

What number has 3 tens and 3 ones? → **G**

What number has 2 tens and 2 ones? → **S**

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

What number has 9 tens and 0 ones? → **P**

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

What number has 1 ten and 6 ones? → **A**

What number has 4 tens and 7 ones? → **D**

What number has 5 tens and 4 ones? → **E**

What number has 4 tens and 8 ones? → **N**

What number has 4 tens and 2 ones? → **R**

What number has 5 tens and 2 ones? → **K**

Scratch space:

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

We have eight water bottles on the tray but we need ten. How many more do 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:

$2 + \underline{\quad} = 10$

$2 + \underline{\quad} = 13$

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

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

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

$10 + \underline{\quad} = 15$

$2 + \underline{\quad} = 14$

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

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

$10 + \underline{\quad} = 12$

$10 + \underline{\quad} = 17$

Step 2 - cross out the sentence with each answer:

1. The villain did a spin move, then jumped in springy socks.
2. The villain tossed a no look pass, then hopped in high tops.
3. The villain made a giant block, then ran in squeaky shoes.
4. The villain made a super dunk, then jumped in springy socks.
5. The villain made a half court shot, then hopped in high tops.
6. The villain made a half court shot, then jumped in springy socks.
7. The villain did a spin move, then sprinted in glow shoes.
8. The villain made a half court shot, then ran in squeaky shoes.
9. The villain tossed a no look pass, then ran in squeaky shoes.
10. The villain tossed a no look pass, then jumped in springy socks.
11. The villain did a spin move, then slid with grip pads.
12. The villain made a super dunk, then sprinted in glow shoes.

Answer Key

The Great Golden Trophy Mystery

Culprit: Candace

no look pass · springy socks · right handed shooter · bright pink hair · squeaky floor

Trail: Start 21 → Clue 1 14 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY BANDIT DOES NOT WEAR GLOW SHOES"

$3 + 6 = 9$ (T) · $4 + 7 = 11$ (R) · $3 + 1 = 4$ (L) · $7 + 10 = 17$ (S) · $10 + 5 = 15$ (E) · $4 + 4 = 8$ (K) · $1 + 4 = 5$ (I) · $1 + 1 = 2$ (W) · $5 + 9 = 14$ (D) · $1 + 2 = 3$ (Y) · $9 + 9 = 18$ (N) · $13 + 7 = 20$ (A) · $1 + 5 = 6$ (O) · $10 + 6 = 16$ (G) · $11 + 8 = 19$ (B) · $3 + 10 = 13$ (H)

Clue 2 (Subtraction): "THE BANDIT IS A RIGHT HANDED SHOOTER"

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

Clue 3 (Skip counting): "THE BANDIT RAN FROM THE SQUEAKY FLOOR"

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

Clue 4 (Place value): "THE BANDIT HAS BRIGHT PINK HAIR"

What number has 1 ten and 7 ones? = 17 (T) · What number has 4 tens and 6 ones? = 46 (H) · What number has 3 tens and 3 ones? = 33 (G) · What number has 2 tens and 2 ones? = 22 (S) · What number has 2 tens and 8 ones? = 28 (I) · What number has 9 tens and 0 ones? = 90 (P) · What number has 3 tens and 7 ones? = 37 (B) · What number has 1 ten and 6 ones? = 16 (A) · What number has 4 tens and 7 ones? = 47 (D) · What number has 5 tens and 4 ones? = 54 (E) · What number has 4 tens and 8 ones? = 48 (N) · What number has 4 tens and 2 ones? = 42 (R) · What number has 5 tens and 2 ones? = 52 (K)

Clue 5 (Missing addends): surviving statement is box 10 → Candace

$2 + \underline{\quad} = 10 = 8$ · $2 + \underline{\quad} = 13 = 11$ · $1 + \underline{\quad} = 7 = 6$ · $3 + \underline{\quad} = 7 = 4$ · $3 + \underline{\quad} = 12 = 9$ · $10 + \underline{\quad} = 15 = 5$ · $2 + \underline{\quad} = 14 = 12$ · $1 + \underline{\quad} = 2 = 1$ · $2 + \underline{\quad} = 5 = 3$ · $10 + \underline{\quad} = 12 = 2$ · $10 + \underline{\quad} = 17 = 7$