The Case of the Missing Championship Trophy

Grade 2 math · Place value, Addition, Rounding, Multi-step word problems, Fractions of a number · Reading level grades 1-2

Detective: _____ **Date:** _____

Someone took the shiny golden trophy right off the bench during halftime! The arena doors were locked. The thief left clues all over the court. Help solve the mystery!

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 Hoop Bandit is _____

Possible suspects

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

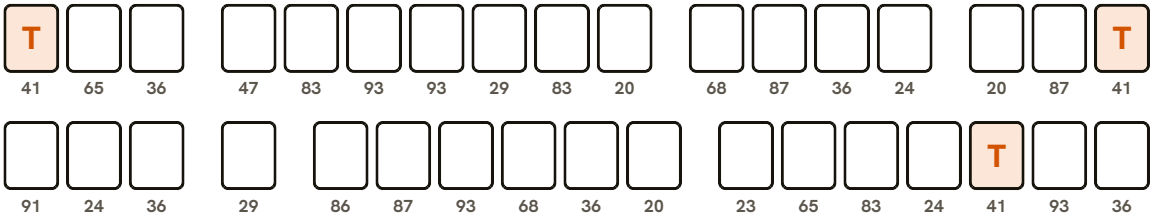
NAME	SIGNATURE MOVE	LUCKY GEAR	DRIBBLE STYLE	HAIR STYLE	COURT WEAKNESS
Lisa Leslie	Slam Dunk	Padded Sleeve	Left Hand Dribbler	Curly Afro	Loud Horns
Devin Booker	Sky Hook	Neon Headband	Left Hand Dribbler	Buzz Cut	Sticky Rubber
LeBron James	Sky Hook	Golden Whistle	Right Hand Dribbler	Buzz Cut	Squeaky Floors
Sabrina Ionescu	Slam Dunk	Golden Whistle	Right Hand Dribbler	Braided Cornrows	Squeaky Floors
Kyrie Irving	Fast Break	Neon Headband	Left Hand Dribbler	Braided Cornrows	Sticky Rubber
Sue Bird	Swish Three	Golden Whistle	Right Hand Dribbler	Curly Afro	Sticky Rubber
Giannis Antetokounmpo	Sky Hook	High Top Sneakers	Right Hand Dribbler	Braided Cornrows	Sticky Rubber
Aja Wilson	Slam Dunk	Grip Tape	Right Hand Dribbler	Buzz Cut	Sticky Rubber
Elena Delle Donne	Sky Hook	Padded Sleeve	Left Hand Dribbler	Buzz Cut	Sticky Rubber
Shaq ONeal	Sky Hook	Grip Tape	Left Hand Dribbler	Buzz Cut	Squeaky Floors
Magic Johnson	Fast Break	Grip Tape	Left Hand Dribbler	Buzz Cut	Sticky Rubber
Diana Taurasi	Fast Break	Padded Sleeve	Left Hand Dribbler	Buzz Cut	Loud Horns
Jimmy Butler	Fast Break	Grip Tape	Left Hand Dribbler	Braided Cornrows	Loud Horns
Candace Parker	Fast Break	High Top Sneakers	Left Hand Dribbler	Braided Cornrows	Sticky Rubber
Kevin Durant	Swish Three	Padded Sleeve	Left Hand Dribbler	Buzz Cut	Sticky Rubber
Maya Moore	Fast Break	Padded Sleeve	Left Hand Dribbler	Braided Cornrows	Loud Horns
Anthony Davis	Slam Dunk	Golden Whistle	Right Hand Dribbler	Braided Cornrows	Loud Horns
Luka Doncic	Swish Three	Golden Whistle	Left Hand Dribbler	Buzz Cut	Sticky Rubber
Cheryl Miller	Swish Three	Neon Headband	Left Hand Dribbler	Braided Cornrows	Loud Horns
Joel Embiid	Crossover Dribble	Golden Whistle	Left Hand Dribbler	Buzz Cut	Loud Horns
Larry Bird	Crossover Dribble	Neon Headband	Left Hand Dribbler	Curly Afro	Loud Horns

make your own at mathcrackers.com

CLUE 1 Place value

Look at the locker board digits. The tens and ones show a 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 2 tens and 9 ones? ☐ → A

What number has 6 tens and 5 ones? ☐ → H

What number has 3 tens and 6 ones? ☐ → E

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

What number has 2 tens and 0 ones? ☐ → N

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

What number has 8 tens and 6 ones? ☐ → G

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

What number has 6 tens and 8 ones? ☐ → D

What number has 4 tens and 7 ones? ☐ → V

What number has 8 tens and 3 ones? ☐ → I

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

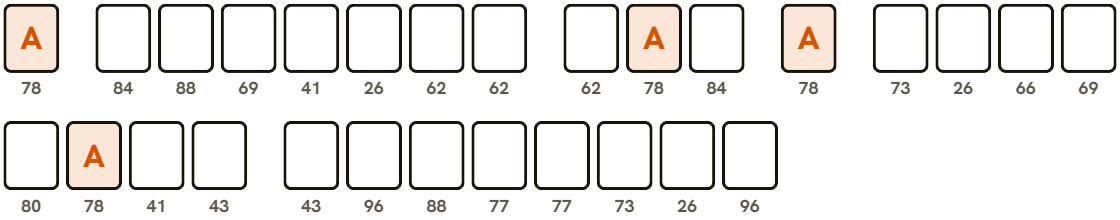
What number has 8 tens and 7 ones? ☐ → O

Scratch space:

CLUE 2 Addition

Add up the gym equipment to find the total count.

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



47 + 31 = ☐ → A

29 + 51 = ☐ → H

43 + 30 = ☐ → L

48 + 48 = ☐ → R

22 + 44 = ☐ → F

20 + 49 = ☐ → T

40 + 48 = ☐ → I

17 + 24 = ☐ → N

22 + 21 = ☐ → D

38 + 46 = ☐ → W

11 + 15 = ☐ → E

43 + 19 = ☐ → S

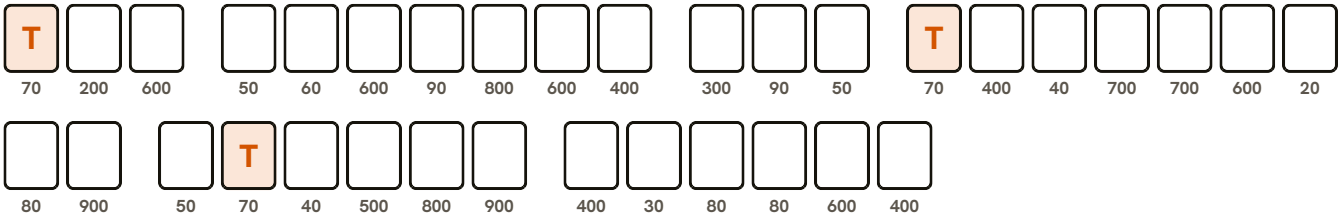
47 + 30 = ☐ → B

Scratch space:

CLUE 3 Rounding

> The stadium scoreboard rounds numbers to the nearest ten.

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



Round 67 to the nearest ten ☐ → T

Round 405 to the nearest hundred ☐ → R

Round 49 to the nearest ten ☐ → S

Round 28 to the nearest ten ☐ → U

Round 322 to the nearest hundred ☐ → W

Round 553 to the nearest hundred ☐ → E

Round 87 to the nearest ten ☐ → A

Round 84 to the nearest ten ☐ → B

Round 58 to the nearest ten ☐ → N

Round 882 to the nearest hundred ☐ → Y

Round 842 to the nearest hundred ☐ → K

Round 744 to the nearest hundred ☐ → P

Round 546 to the nearest hundred ☐ → C

Round 21 to the nearest ten ☐ → D

Round 186 to the nearest hundred ☐ → H

Round 44 to the nearest ten ☐ → I

Scratch space:

CLUE 4 Multi-step word problems

Count the warm up gear step by step before practice.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of

B						
9	6	38	38	39	6	19

hair turned up at the scene.

Equipment manager collected 23 sneaker laces in the morning and 22 sneaker laces in the afternoon, then split them equally among 5 Hoop Town Ballers. How many sneaker laces did each get?

Answer: ☐ → **B**

Equipment manager earned 5 water bottles in each of 4 rounds, plus 23 bonus water bottles. Then 5 water bottles were lost. How many water bottles are left?

Answer: ☐ → **Z**

Equipment manager collected 20 sweatbands in the morning and 18 sweatbands in the afternoon, then split them equally among 2 Hoop Town Ballers. How many sweatbands did each get?

Answer: ☐ → **T**

Equipment manager collected 5 water bottles in the morning and 7 water bottles in the afternoon, then split them equally among 2 Hoop Town Ballers. How many water bottles did each get?

Answer: ☐ → **U**

Equipment manager earned 4 water bottles in each of 5 rounds, plus 27 bonus water bottles. Then 8 water bottles were lost. How many water bottles are left?

Answer: ☐ → **C**

Scratch space:

CLUE 5

Fractions of a number - the last clue

Find the fraction of the basketballs sitting on the rack.

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:

1/4 of 40 = ☐ | 1/2 of 4 = ☐ | 1/3 of 21 = ☐ | 1/4 of 4 = ☐ | 1/3 of 15 = ☐

1/10 of 30 = ☐ | 4/5 of 15 = ☐ | 1/10 of 80 = ☐ | 4/8 of 8 = ☐

4/6 of 9 = ☐ | 2/8 of 44 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain led a fast break, then wore high top sneakers.
2. The villain performed a sky hook, then put on a neon headband.
3. The villain performed a sky hook, then blew a golden whistle.
4. The villain sank a swish three, then blew a golden whistle.
5. The villain sank a swish three, then put on a neon headband.
6. The villain used a crossover dribble, then blew a golden whistle.
7. The villain sank a swish three, then adjusted a padded sleeve.
8. The villain threw down a slam dunk, then adjusted a padded sleeve.
9. The villain led a fast break, then wrapped grip tape.
10. The villain performed a sky hook, then adjusted a padded sleeve.
11. The villain sank a swish three, then wrapped grip tape.
12. The villain threw down a slam dunk, then wore high top sneakers.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Trophy

Culprit: Magic Johnson

Fast Break · Grip Tape · Left Hand Dribbler · Buzz Cut · Sticky Rubber

Trail: Start 21 → Clue 1 15 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A GOLDEN WHISTLE"

What number has 4 tens and 1 one? = 41 (T) · What number has 2 tens and 9 ones? = 29 (A) · What number has 6 tens and 5 ones? = 65 (H) · What number has 3 tens and 6 ones? = 36 (E) · What number has 9 tens and 3 ones? = 93 (L) · What number has 2 tens and 0 ones? = 20 (N) · What number has 2 tens and 4 ones? = 24 (S) · What number has 8 tens and 6 ones? = 86 (G) · What number has 2 tens and 3 ones? = 23 (W) · What number has 6 tens and 8 ones? = 68 (D) · What number has 4 tens and 7 ones? = 47 (V) · What number has 8 tens and 3 ones? = 83 (I) · What number has 9 tens and 1 one? = 91 (U) · What number has 8 tens and 7 ones? = 87 (O)

Clue 2 (Addition): "A WITNESS SAW A LEFT HAND DRIBBLER"

47 + 31 = 78 (A) · 29 + 51 = 80 (H) · 43 + 30 = 73 (L) · 48 + 48 = 96 (R) · 22 + 44 = 66 (F) · 20 + 49 = 69 (T) · 40 + 48 = 88 (I) · 17 + 24 = 41 (N) · 22 + 21 = 43 (D) · 38 + 46 = 84 (W) · 11 + 15 = 26 (E) · 43 + 19 = 62 (S) · 47 + 30 = 77 (B)

Clue 3 (Rounding): "THE SNEAKER WAS TRIPPED BY STICKY RUBBER"

Round 67 to the nearest ten = 70 (T) · Round 405 to the nearest hundred = 400 (R) · Round 49 to the nearest ten = 50 (S) · Round 28 to the nearest ten = 30 (U) · Round 322 to the nearest hundred = 300 (W) · Round 553 to the nearest hundred = 600 (E) · Round 87 to the nearest ten = 90 (A) · Round 84 to the nearest ten = 80 (B) · Round 58 to the nearest ten = 60 (N) · Round 882 to the nearest hundred = 900 (Y) · Round 842 to the nearest hundred = 800 (K) · Round 744 to the nearest hundred = 700 (P) · Round 546 to the nearest hundred = 500 (C) · Round 21 to the nearest ten = 20 (D) · Round 186 to the nearest hundred = 200 (H) · Round 44 to the nearest ten = 40 (I)

Clue 4 (Multi-step word problems): "BUZZ CUT"

Equipment manager collected 23 sneaker laces in the morning and 22 sneaker laces in the afternoon, then split them equally among 5 Hoop Town Ballers. How many sneaker laces did each get? = 9 (B) · Equipment manager earned 5 water bottles in each of 4 rounds, plus 23 bonus water bottles. Then 5 water bottles were lost. How many water bottles are left? = 38 (Z) · Equipment manager collected 20 sweatbands in the morning and 18 sweatbands in the afternoon, then split them equally among 2 Hoop Town Ballers. How many sweatbands did each get? = 19 (T) · Equipment manager collected 5 water bottles in the morning and 7 water bottles in the afternoon, then split them equally among 2 Hoop Town Ballers. How many water bottles did each get? = 6 (U) · Equipment manager earned 4 water bottles in each of 5 rounds, plus 27 bonus water bottles. Then 8 water bottles were lost. How many water bottles are left? = 39 (C)

Clue 5 (Fractions of a number): surviving statement is box 9 → Magic Johnson

1/4 of 40 = 10 · 1/2 of 4 = 2 · 1/3 of 21 = 7 · 1/4 of 4 = 1 · 1/3 of 15 = 5 · 1/10 of 30 = 3 · 4/5 of 15 = 12 · 1/10 of 80 = 8 · 4/8 of 8 = 4 · 4/6 of 9 = 6 · 2/8 of 44 = 11