



The Cosmic Court Heist

Grade 2 math · Skip counting, Word problems, Fractions of a number, Rounding · Reading level grades 7-9

Detective: _____ **Date:** _____

The Championship Blocky Cup has been swiped from the center of the court! The tournament referee was temporarily deactivated by a rogue player using cosmic basketball tricks. Follow the clues and help the security robots recover the trophy before the final buzzer sounds.

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 Cyber-Thief is _____

Possible suspects

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

NAME	DRIBBLING STYLE	COSMIC GEAR	SIGNATURE MOVE	SENSOR GLOW	SYSTEM FAULT
LeBron Mew	telekinetic floating	plasma net	right-hand shooter	electric cyan	overheats in sun
Giga Tail	rapid tail-slapping	gravity boots	left-hand shooter	pixelated green	freezes in shadow
Cosmo Claw	cybernetic rolling	gravity boots	left-hand shooter	neon magenta	overheats in sun
Mecha Mane	telekinetic floating	rocket sneakers	right-hand shooter	electric cyan	rusts in water
Luna Fin	jetpack bouncing	plasma net	right-hand shooter	electric cyan	freezes in shadow
Aqua Byte	blocky glitching	horn lasers	left-hand shooter	neon magenta	overheats in sun
Nebula Hoops	cybernetic rolling	sonar visor	left-hand shooter	neon magenta	rusts in water
Drift Circuit	cybernetic rolling	horn lasers	left-hand shooter	electric cyan	freezes in shadow
Slick Fin	cybernetic rolling	sonar visor	right-hand shooter	electric cyan	rusts in water
Giannis Antetokitty	cybernetic rolling	gravity boots	right-hand shooter	electric cyan	freezes in shadow
Marina Splash	rapid tail-slapping	horn lasers	right-hand shooter	electric cyan	overheats in sun
Luka Doncat	telekinetic floating	horn lasers	left-hand shooter	electric cyan	freezes in shadow
Robo James	rapid tail-slapping	rocket sneakers	right-hand shooter	pixelated green	rusts in water
Coral Spark	cybernetic rolling	sonar visor	left-hand shooter	pixelated green	freezes in shadow
Pixel Whiskers	jetpack bouncing	rocket sneakers	right-hand shooter	electric cyan	freezes in shadow
Astro Paws	rapid tail-slapping	horn lasers	right-hand shooter	neon magenta	overheats in sun
Nikola Jokicap	jetpack bouncing	sonar visor	right-hand shooter	electric cyan	freezes in shadow
Stephen Kitty	cybernetic rolling	plasma net	right-hand shooter	electric cyan	overheats in sun
Kyrie Purrvig	rapid tail-slapping	rocket sneakers	right-hand shooter	electric cyan	freezes in shadow
Meow Ming	rapid tail-slapping	rocket sneakers	left-hand shooter	pixelated green	freezes in shadow
Vector Velvet	telekinetic floating	sonar visor	right-hand shooter	pixelated green	freezes in shadow

CLUE 1

You scan the arena bleachers, skip-counting the glowing seats row by row to estimate the rogue crowd size before they scramble your database.

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

T									T								T
28	50	39	25	16	25	90	39	33	28	40	120	39	25	20	120	28	
																	T
16	25	39	27	90	8	27	25	12	27	20	39	28					

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **T**

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

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **D**

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

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

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, , 60, 70 → **H**

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

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

Scratch space:

CLUE 2

Word problems

A damaged security drone sparks on the floor. Solving its word problem inventory of missing equipment reveals the thief's escape vector.

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

A witness saw the villain was

R

D
S

O
O

E
R
.

33 29 16 11 40 11 27 8 11 40 33

Astro-Ref lined up 11 rows of 3 cyber whiskers. How many cyber whiskers in all?

Answer: → R

Astro-Ref lined up 4 rows of 2 pixel blocks. How many pixel blocks in all?

Answer: → N

Astro-Ref lined up 4 rows of 4 space treats. How many space treats in all?

Answer: → G

Astro-Ref found 6 sonar fish yesterday and 5 more today. How many sonar fish in all?

Answer: → H

There were 37 sonar fish. 8 were used up. How many sonar fish are left?

Answer: → I

There were 44 energy basketballs. 4 were used up. How many energy basketballs are left?

Answer: → T

Astro-Ref lined up 9 rows of 3 sonar fish. How many sonar fish in all?

Answer: → A

Scratch space:

Fractions of a number

You examine the team locker rooms, calculating what fraction of the cosmic uniform charging stations were drained during the heist.

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

A 2x15 grid of boxes. The top row contains the following values from left to right: 25 (orange), 2, 16, 11, 24, 18, 38, 5, 39, 33, 22, 20, 5, 25 (orange), 5, 24. The bottom row contains the following values from left to right: 3, 24, 16, 16, 21, 16, 30, 11, 40, 30, 2, 10, 19, 5, 15.

$$2/6 \text{ of } 75 = \boxed{} \rightarrow \boxed{\text{T}}$$

3/10 of 110 = → **K**

$3/5$ of 65 = $\rightarrow$ **C**

8/10 of 50 = → **N**

$2/4$ of 30 = $\rightarrow$ **W**

$2/5$ of 55 = $\rightarrow$ **Y**

$$2/8 \text{ of } 76 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$\frac{1}{6} \text{ of } 60 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$1/6 \text{ of } 126 = \boxed{} \rightarrow \boxed{\mathbf{Z}}$$

$\frac{1}{2}$ of 10 = $\rightarrow$ ☐

$2/4$ of $6 = \boxed{} \rightarrow \boxed{\text{F}}$

2/10 of 55 = →

4/10 of 50 = → **M**

$\frac{1}{4}$ of 120 = $\rightarrow$ **S**

$$4/6 \text{ of } 57 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$1/2 \text{ of } 32 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2/4 \text{ of } 48 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2/3 \text{ of } 3 = \boxed{} \rightarrow \boxed{\text{H}}$$

$2/4$ of $36 = \boxed{} \rightarrow \mathbf{B}$

Scratch space:

CLUE 4 Rounding

The court's seismic sensors can only output rounded telemetry numbers, so you must round the coordinates to find the precise crash site.

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

T															
20	80	600	40	90	600	900	40	200	40	30	600	90	40		
			T	T							T				
400	300	700	20	20	600	500	600	800	600	200	20	90	70	200	

Round 16 to the nearest ten → **T**

Round 544 to the nearest hundred → **D**

Round 224 to the nearest hundred → **C**

Round 42 to the nearest ten → **A**

Round 340 to the nearest hundred → **P**

Round 84 to the nearest ten → **H**

Round 852 to the nearest hundred → **N**

Round 61 to the nearest ten → **Y**

Round 94 to the nearest ten → **R**

Round 567 to the nearest hundred → **E**

Round 32 to the nearest ten → **M**

Round 843 to the nearest hundred → **L**

Round 400 to the nearest hundred → **S**

Round 673 to the nearest hundred → **O**

Round 71 to the nearest ten → **I**

Scratch space:

CLUE 5**Fractions of a number - the last clue**

Analyzing the high-voltage scoreboard requires finding the exact fraction of active pixels that are still glowing after the cyber attack.

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:

$1/6 \text{ of } 36 = \boxed{}$

$3/6 \text{ of } 2 = \boxed{}$

$1/4 \text{ of } 16 = \boxed{}$

$1/2 \text{ of } 10 = \boxed{}$

$1/3 \text{ of } 9 = \boxed{}$

$1/10 \text{ of } 20 = \boxed{}$

$8/10 \text{ of } 10 = \boxed{}$

$4/6 \text{ of } 15 = \boxed{}$

$2/4 \text{ of } 22 = \boxed{}$

$5/10 \text{ of } 18 = \boxed{}$

$2/10 \text{ of } 60 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain rolled swiftly across the court floor, then anchored down using heavy gravity boots.
2. The villain drifted past defenders using telekinesis, then activated glowing horn lasers to distract the crowd.
3. The villain rolled swiftly across the court floor, then tracked the path with a sonar visor.
4. The villain bounced high on jetpack fuel, then tracked the path with a sonar visor.
5. The villain bounced high on jetpack fuel, then anchored down using heavy gravity boots.
6. The villain swished the ball with a rapid tail-slap, then boosted away in rocket sneakers.
7. The villain bounced high on jetpack fuel, then boosted away in rocket sneakers.
8. The villain swished the ball with a rapid tail-slap, then activated glowing horn lasers to distract the crowd.
9. The villain drifted past defenders using telekinesis, then trapped the referee inside a plasma net.
10. The villain teleported straight through the defensive blocks, then boosted away in rocket sneakers.
11. The villain drifted past defenders using telekinesis, then tracked the path with a sonar visor.
12. The villain teleported straight through the defensive blocks, then tracked the path with a sonar visor.

Answer Key

The Cosmic Court Heist

Culprit: Pixel Whiskers

jetpack bouncing · rocket sneakers · right-hand shooter · electric cyan · freezes in shadow

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE SUSPECT DOES NOT USE A PLASMA NET"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (M) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (S)

Clue 2 (Word problems): "RIGHT HAND SHOOTER"

Astro-Ref lined up 11 rows of 3 cyber whiskers. How many cyber whiskers in all? = 33 (R) · Astro-Ref lined up 4 rows of 2 pixel blocks. How many pixel blocks in all? = 8 (N) · Astro-Ref lined up 4 rows of 4 space treats. How many space treats in all? = 16 (G) · Astro-Ref found 6 sonar fish yesterday and 5 more today. How many sonar fish in all? = 11 (H) · There were 37 sonar fish. 8 were used up. How many sonar fish are left? = 29 (I) · There were 44 energy basketballs. 4 were used up. How many energy basketballs are left? = 40 (T) · Astro-Ref lined up 9 rows of 3 sonar fish. How many sonar fish in all? = 27 (A)

Clue 3 (Fractions of a number): "THEIR BLOCKY MOTOR FREEZES IN SHADOW"

$\frac{2}{6}$ of 75 = 25 (T) · $\frac{3}{10}$ of 110 = 33 (K) · $\frac{3}{5}$ of 65 = 39 (C) · $\frac{8}{10}$ of 50 = 40 (N) · $\frac{2}{4}$ of 30 = 15 (W) · $\frac{2}{5}$ of 55 = 22 (Y) · $\frac{2}{8}$ of 76 = 19 (D) · $\frac{1}{6}$ of 60 = 10 (A) · $\frac{1}{6}$ of 126 = 21 (Z) · $\frac{1}{2}$ of 10 = 5 (O) · $\frac{2}{4}$ of 6 = 3 (F) · $\frac{2}{10}$ of 55 = 11 (I) · $\frac{4}{10}$ of 50 = 20 (M) · $\frac{1}{4}$ of 120 = 30 (S) · $\frac{4}{6}$ of 57 = 38 (L) · $\frac{1}{2}$ of 32 = 16 (E) · $\frac{2}{4}$ of 48 = 24 (R) · $\frac{2}{3}$ of 3 = 2 (H) · $\frac{2}{4}$ of 36 = 18 (B)

Clue 4 (Rounding): "THE ARENA CAMERA SPOTTED ELECTRIC CYAN"

Round 16 to the nearest ten = 20 (T) · Round 544 to the nearest hundred = 500 (D) · Round 224 to the nearest hundred = 200 (C) · Round 42 to the nearest ten = 40 (A) · Round 340 to the nearest hundred = 300 (P) · Round 84 to the nearest ten = 80 (H) · Round 852 to the nearest hundred = 900 (N) · Round 61 to the nearest ten = 60 (Y) · Round 94 to the nearest ten = 90 (R) · Round 567 to the nearest hundred = 600 (E) · Round 32 to the nearest ten = 30 (M) · Round 843 to the nearest hundred = 800 (L) · Round 400 to the nearest hundred = 400 (S) · Round 673 to the nearest hundred = 700 (O) · Round 71 to the nearest ten = 70 (I)

Clue 5 (Fractions of a number): surviving statement is box 7 → Pixel Whiskers

$\frac{1}{6}$ of 36 = 6 · $\frac{3}{6}$ of 2 = 1 · $\frac{1}{4}$ of 16 = 4 · $\frac{1}{2}$ of 10 = 5 · $\frac{1}{3}$ of 9 = 3 · $\frac{1}{10}$ of 20 = 2 · $\frac{8}{10}$ of 10 = 8 · $\frac{4}{6}$ of 15 = 10 · $\frac{2}{4}$ of 22 = 11 · $\frac{5}{10}$ of 18 = 9 · $\frac{2}{10}$ of 60 = 12