The Championship Trophy Caper

Grade 6 math · Fractions of a number, Percentages, Exponents, Order of operations · Reading level grades 5-6

Detective: _____ **Date:** _____

Just minutes before tipoff at the championship game, the prized golden trophy vanished from center court! A sneaky villain swapped it for a painted foam basketball. Solve the clues to reveal the court culprit before time runs out!

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 court culprit 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	SPECIAL SKILL	SHOOTING HAND	HEADBAND COLOR	COURT DISTRACTION
Devin Booker	STEPBACK THREE	HALF COURT ACCURACY	RIGHT HANDED SHOOTER	ELECTRIC BLUE HEADBAND	FLASHING ARENA CAMERA
Luka Doncic	FINGER ROLL LAYUP	LOCKDOWN DEFENSE	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	BOUNCING SHOT CLOCK
Damian Lillard	CROSSOVER DRIBBLE	HALF COURT ACCURACY	RIGHT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	BOUNCING SHOT CLOCK
Steph Curry	FINGER ROLL LAYUP	LOCKDOWN DEFENSE	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Kevin Durant	STEPBACK THREE	BUZZER BEATER TIMING	RIGHT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Ja Morant	FINGER ROLL LAYUP	TRIPLE DOUBLE PASSING	RIGHT HANDED SHOOTER	NEON RED HEADBAND	FLASHING ARENA CAMERA
Anthony Edwards	SKYHOOK SHOT	FAST BREAK SPEED	LEFT HANDED SHOOTER	ELECTRIC BLUE HEADBAND	BOUNCING SHOT CLOCK
Jimmy Butler	ALLEY OOP DUNK	FAST BREAK SPEED	RIGHT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	LOUD SQUEAKY SNEAKERS
Bam Adebayo	STEPBACK THREE	TRIPLE DOUBLE PASSING	LEFT HANDED SHOOTER	NEON RED HEADBAND	BOUNCING SHOT CLOCK
Giannis Antetokounmpo	ALLEY OOP DUNK	TRIPLE DOUBLE PASSING	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Shai Gilgeous Alexander	FINGER ROLL LAYUP	FAST BREAK SPEED	LEFT HANDED SHOOTER	ELECTRIC BLUE HEADBAND	LOUD SQUEAKY SNEAKERS
Donovan Mitchell	SKYHOOK SHOT	HALF COURT ACCURACY	RIGHT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Kyrie Irving	ALLEY OOP DUNK	HALF COURT ACCURACY	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	BOUNCING SHOT CLOCK
Domantas Sabonis	SKYHOOK SHOT	FAST BREAK SPEED	RIGHT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Tyrese Haliburton	ALLEY OOP DUNK	LOCKDOWN DEFENSE	LEFT HANDED SHOOTER	ELECTRIC BLUE HEADBAND	FLASHING ARENA CAMERA
Anthony Davis	ALLEY OOP DUNK	FAST BREAK SPEED	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Pascal Siakam	FINGER ROLL LAYUP	TRIPLE DOUBLE PASSING	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	BOUNCING SHOT CLOCK
Trae Young	STEPBACK THREE	BUZZER BEATER TIMING	RIGHT HANDED SHOOTER	NEON RED HEADBAND	BOUNCING SHOT CLOCK
Karl Anthony Towns	CROSSOVER DRIBBLE	LOCKDOWN DEFENSE	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
Nikola Jokic	STEPBACK THREE	HALF COURT ACCURACY	LEFT HANDED SHOOTER	GOLDEN YELLOW HEADBAND	FLASHING ARENA CAMERA
DeAaron Fox	STEPBACK THREE	FAST BREAK SPEED	RIGHT HANDED SHOOTER	NEON RED HEADBAND	FLASHING ARENA CAMERA

CLUE 1 Fractions of a number

> The video crew calculated a fraction of the total game film footage to establish a clear timeline.

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

T								T									T			
35	31	30	14	8	7	39	11	12	35	32	17	30	23	37	17	35				

			T																	
8	23	30	35	11	12	39	7	30	32	17	8	6	7	30						

39	34	23	23	12	37	25

5/6 of 42 = ☐ → T

2/10 of 125 = ☐ → G

2/10 of 85 = ☐ → O

2/8 of 32 = ☐ → U

1/6 of 66 = ☐ → R

4/8 of 28 = ☐ → C

2/10 of 115 = ☐ → S

1/6 of 180 = ☐ → E

4/10 of 30 = ☐ → I

6/10 of 10 = ☐ → B

2/6 of 111 = ☐ → N

4/10 of 80 = ☐ → D

2/4 of 78 = ☐ → P

2/4 of 62 = ☐ → H

2/4 of 14 = ☐ → L

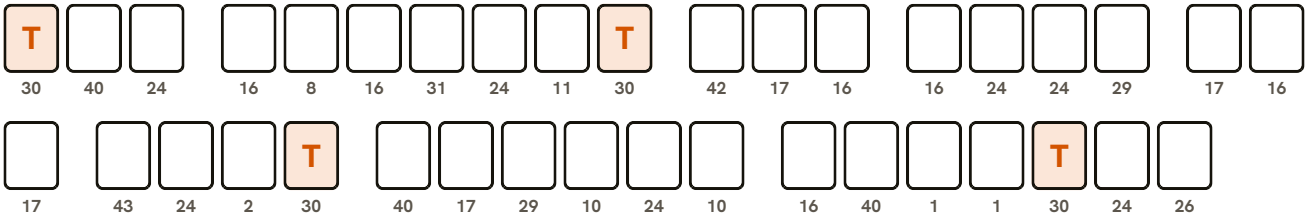
2/10 of 170 = ☐ → A

Scratch space:

CLUE 2 Percentages

The arena manager checked percentage accuracy stats on the shot chart tracking system.

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



25% of 120 = ☐ → T

20% of 10 = ☐ → F

20% of 85 = ☐ → A

25% of 104 = ☐ → R

20% of 200 = ☐ → H

5% of 320 = ☐ → S

25% of 116 = ☐ → N

20% of 155 = ☐ → P

20% of 40 = ☐ → U

25% of 44 = ☐ → C

5% of 20 = ☐ → O

20% of 50 = ☐ → D

60% of 40 = ☐ → E

10% of 420 = ☐ → W

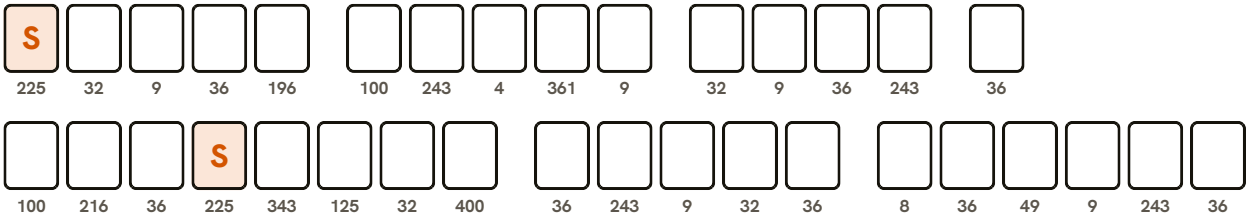
25% of 172 = ☐ → L

Scratch space:

CLUE 3 Exponents

The coach analyzed training drills where ball bounces multiplied exponentially on each repeat drill.

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



15^2 = ☐ → S

19^2 = ☐ → Z

3^5 = ☐ → R

7^2 = ☐ → M

5^3 = ☐ → I

7^3 = ☐ → H

3^2 = ☐ → E

6^2 = ☐ → A

20^2 = ☐ → G

2^2 = ☐ → O

10^2 = ☐ → F

14^2 = ☐ → K

2^5 = ☐ → N

6^3 = ☐ → L

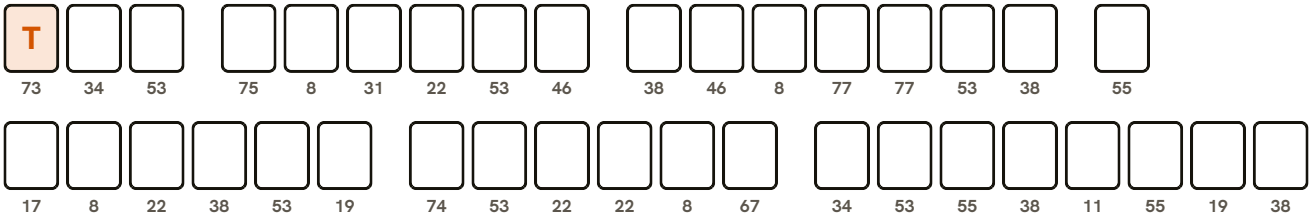
2^3 = ☐ → C

Scratch space:

CLUE 4 Order of operations

The head referee followed step by step order of operations rules to decode the clock log.

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



49 + 6 × 4 = ☐ → T

9 × 7 - 29 = ☐ → H

6 × 3 - 1 = ☐ → G

16 + 3 × 2 = ☐ → L

10 + 4 × 7 = ☐ → D

7 × 11 - 24 = ☐ → E

12 × 7 - 9 = ☐ → F

12 × 5 - 29 = ☐ → U

3 × 9 - 8 = ☐ → N

11 × 8 - 14 = ☐ → Y

6 × 9 - 8 = ☐ → R

6 + 7 × 7 = ☐ → A

35 + 4 × 8 = ☐ → W

7 × 12 - 7 = ☐ → P

4 + 2 × 2 = ☐ → O

3 + 2 × 4 = ☐ → B

Scratch space:

CLUE 5 Fractions of a number - the last clue

The assistant coach calculated a fraction of the team practice basketballs left in the equipment room.

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:

2/8 of 32 = ☐	1/10 of 70 = ☐	2/8 of 20 = ☐	1/3 of 33 = ☐
4/8 of 20 = ☐	1/3 of 6 = ☐	2/6 of 3 = ☐	2/4 of 18 = ☐
6/8 of 16 = ☐			
1/3 of 12 = ☐	1/4 of 12 = ☐		

Step 2 - cross out the sentence with each answer:

1. The villain glided in for a finger roll layup, then escaped with fast break speed.
2. The villain sank a smooth stepback three, then dished off clues with triple double passing.
3. The villain sank a smooth stepback three, then escaped the trap with buzzer beater timing.
4. The villain floated a classic skyhook shot, then scored from distance with half court accuracy.
5. The villain executed a sharp crossover dribble, then shut down guards with lockdown defense.
6. The villain threw down a thunderous alley oop dunk, then escaped with fast break speed.
7. The villain glided in for a finger roll layup, then shut down guards with lockdown defense.
8. The villain sank a smooth stepback three, then scored from distance with half court accuracy.
9. The villain threw down a thunderous alley oop dunk, then scored from distance with half court accuracy.
10. The villain executed a sharp crossover dribble, then escaped the trap with buzzer beater timing.
11. The villain floated a classic skyhook shot, then escaped the trap with buzzer beater timing.
12. The villain glided in for a finger roll layup, then dished off clues with triple double passing.

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TEACHER / PARENT

Answer Key

The Championship Trophy Caper

Culprit: Anthony Davis

ALLEY OOP DUNK · FAST BREAK SPEED · LEFT HANDED SHOOTER · GOLDEN YELLOW HEADBAND · FLASHING ARENA CAMERA

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE CULPRIT DOES NOT USE TRIPLE DOUBLE PASSING"

5/6 of 42 = 35 (T) · 2/10 of 125 = 25 (G) · 2/10 of 85 = 17 (O) · 2/8 of 32 = 8 (U) · 1/6 of 66 = 11 (R) · 4/8 of 28 = 14 (C) · 2/10 of 115 = 23 (S) · 1/6 of 180 = 30 (E) · 4/10 of 30 = 12 (I) · 6/10 of 10 = 6 (B) · 2/6 of 111 = 37 (N) · 4/10 of 80 = 32 (D) · 2/4 of 78 = 39 (P) · 2/4 of 62 = 31 (H) · 2/4 of 14 = 7 (L) · 2/10 of 170 = 34 (A)

Clue 2 (Percentages): "THE SUSPECT WAS SEEN AS A LEFT HANDED SHOOTER"

25% of 120 = 30 (T) · 20% of 10 = 2 (F) · 20% of 85 = 17 (A) · 25% of 104 = 26 (R) · 20% of 200 = 40 (H) · 5% of 320 = 16 (S) · 25% of 116 = 29 (N) · 20% of 155 = 31 (P) · 20% of 40 = 8 (U) · 25% of 44 = 11 (C) · 5% of 20 = 1 (O) · 20% of 50 = 10 (D) · 60% of 40 = 24 (E) · 10% of 420 = 42 (W) · 25% of 172 = 43 (L)

Clue 3 (Exponents): "SNEAK FROZE NEAR A FLASHING ARENA CAMERA"

15^2 = 225 (S) · 19^2 = 361 (Z) · 3^5 = 243 (R) · 7^2 = 49 (M) · 5^3 = 125 (I) · 7^3 = 343 (H) · 3^2 = 9 (E) · 6^2 = 36 (A) · 20^2 = 400 (G) · 2^2 = 4 (O) · 10^2 = 100 (F) · 14^2 = 196 (K) · 2^5 = 32 (N) · 6^3 = 216 (L) · 2^3 = 8 (C)

Clue 4 (Order of operations): "THE FOULER DROPPED A GOLDEN YELLOW HEADBAND"

49 + 6 × 4 = 73 (T) · 9 × 7 - 29 = 34 (H) · 6 × 3 - 1 = 17 (G) · 16 + 3 × 2 = 22 (L) · 10 + 4 × 7 = 38 (D) · 7 × 11 - 24 = 53 (E) · 12 × 7 - 9 = 75 (F) · 12 × 5 - 29 = 31 (U) · 3 × 9 - 8 = 19 (N) · 11 × 8 - 14 = 74 (Y) · 6 × 9 - 8 = 46 (R) · 6 + 7 × 7 = 55 (A) · 35 + 4 × 8 = 67 (W) · 7 × 12 - 7 = 77 (P) · 4 + 2 × 2 = 8 (O) · 3 + 2 × 4 = 11 (B)

Clue 5 (Fractions of a number): surviving statement is box 6 → Anthony Davis

2/8 of 32 = 8 · 1/10 of 70 = 7 · 2/8 of 20 = 5 · 1/3 of 33 = 11 · 4/8 of 20 = 10 · 1/3 of 6 = 2 · 2/6 of 3 = 1 · 2/4 of 18 = 9 · 6/8 of 16 = 12 · 1/3 of 12 = 4 · 1/4 of 12 = 3